

**From:** [REDACTED] NWK  
**Sent:** Monday, May 09, 2011 8:28 AM  
**To:** [REDACTED] NWD02  
**Cc:** Farhat, Jody S NWD02  
**Subject:** RE: River Survey May 3, 2011 (UNCLASSIFIED)

I suggest [REDACTED] continue to update the group on the nesting status through e-mail and suspend the bird calls for the time being. We can set up a call on short notice if the situation warrants or someone wants a call. We are evacuating water from the system and will continue to do so through the nesting season. The system release from Gavins Point is scheduled to be 54,000cfs at 0900 Monday morning and will probably go up as system storage picks up. The release information and forecast can be found on our web page. As [REDACTED] noted the releases coupled with the James river flows leaves very little if any habitat. Garrison releases will be in the neighborhood of 49,000cfs in the next week. I suspect there will be very little habitat in that reach as well but will keep my eyes on Greg's field reports.

Thanks

Doug

-----Original Message-----

From: [REDACTED] NWO

Sent: Wednesday, May 04, 2011 2:06 PM

To: Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]

[REDACTED] NWO; Carol Aron@fws.gov; Henry Maddux@fws.gov; [REDACTED] NWK; [REDACTED]

NWO; [REDACTED] NWO

Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO;

[REDACTED] NWO

Subject: River Survey May 3, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Below is a summary of the survey conducted on May 3, 2011. If you have any questions, please e-mail me or call me at 402-667-2581.

[REDACTED]

On May 3, 2011 the Missouri River below Gavins Point Dam was surveyed from RM 791.5 to RM 777.7. 49 piping plovers and 1 semi-palmated plover were observed. No nests were found, but six plovers were observed sitting in nest bowls indicating that egg laying will begin shortly. 7 plovers were observed at the constructed sandbar complex at RM 791.5. 2 plovers were observed at the natural sandbar at RM 782.5. 27 plovers were observed at the constructed sandbar complex at RM 781.5. 8 plovers were observed at the constructed sandbar complex at RM 781.0. 5 plovers were observed at the constructed sandbar at RM 777.7. All sandbars were greatly reduced in size compared to 2009 and 2010. The historic plover nesting sandbars at RM 790.9, 789.6 and 788.5 were inundated. The two geotube structures at RM 789.6 were inundated. Flows on the Missouri were estimated at 63,000 cfs with 45,000 cfs coming out of the dam and 18,000 cfs coming in from the James River. If flows exceed 70,000 cfs the sandbars at RM 782.5, 781.5, 781.0 and 777.7 will probably be inundated. The sandbar at RM 791.5 will probably be available at 70,000 cfs, but will be further reduced in size. Though not surveyed, at 63,000 cfs (plus an additional 4,000 cfs coming in from the Vermillion River at RM 771.0) all historic plover nesting sandbars and constructed sandbars below RM 777.7 are believed inundated.

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

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From: [REDACTED] NWD02  
Sent: Monday, May 09, 2011 8:26 AM  
To: [REDACTED] A NWK  
Cc: Farhat, Jody S NWD02  
Subject: RE: River Survey May 3, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Nope. not a peep.

-----Original Message-----

From: [REDACTED] NWK  
Sent: Sunday, May 08, 2011 4:23 PM  
To: [REDACTED] NWD02  
Subject: RE: River Survey May 3, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]

Just curious -- did the FWS respond to your suggestion?

[REDACTED]

-----Original Message-----

From: [REDACTED] NWD02  
Sent: Friday, May 06, 2011 2:25 PM  
To: Pavelka, Gregory NWO; Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWO; 'Carol\_Aron@fws.gov'; 'Henry\_Maddux@fws.gov'; [REDACTED] NWK; [REDACTED] NWO; [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: RE: River Survey May 3, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

All,  
I suggest Greg continue to update the group on the nesting status through e-mail and suspend the bird calls for the time being. We can set up a call on short notice if the situation warrants or someone wants a call. We are evacuating water from the system and will continue to do so through the nesting season. The system release from Gavins Point is scheduled to be 54,000cfs at 0900 Monday morning and will probably go up as system storage picks up. The release information and forecast can be found on our web page. As [REDACTED] noted the releases coupled with the James river flows leaves very little if any habitat. Garrison releases will be in the neighborhood of 49,000cfs in the next week. I suspect there will be very little habitat in that reach as well but will keep my eyes on [REDACTED] field reports.

Thanks

[REDACTED]

-----Original Message-----

From: Pavelka, Gregory NWO

Sent: Wednesday, May 04, 2011 2:06 PM

To: Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED]  
Wayne M NWO; Carol Aron@fws.gov; Henry Maddux@fws.gov; [REDACTED] NWK; [REDACTED]  
NWO; [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO;  
[REDACTED] NWO

Subject: River Survey May 3, 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Below is a summary of the survey conducted on May 3, 2011. If you have any questions, please e-mail me or call me at 402-667-2581.

[REDACTED]

On May 3, 2011 the Missouri River below Gavins Point Dam was surveyed from RM 791.5 to RM 777.7. 49 piping plovers and 1 semi-palmated plover were observed. No nests were found, but six plovers were observed sitting in nest bowls indicating that egg laying will begin shortly. 7 plovers were observed at the constructed sandbar complex at RM 791.5. 2 plovers were observed at the natural sandbar at RM 782.5. 27 plovers were observed at the constructed sandbar complex at RM 781.5. 8 plovers were observed at the constructed sandbar complex at RM 781.0. 5 plovers were observed at the constructed sandbar at RM 777.7. All sandbars were greatly reduced in size compared to 2009 and 2010. The historic plover nesting sandbars at RM 790.9, 789.6 and 788.5 were inundated. The two geotube structures at RM 789.6 were inundated. Flows on the Missouri were estimated at 63,000 cfs with 45,000 cfs coming out of the dam and 18,000 cfs coming in from the James River. If flows exceed 70,000 cfs the sandbars at RM 782.5, 781.5, 781.0 and 777.7 will probably be inundated. The sandbar at RM 791.5 will probably be available at 70,000 cfs, but will be further reduced in size. Though not surveyed, at 63,000 cfs (plus an additional 4,000 cfs coming in from the Vermillion River at RM 771.0) all historic plover nesting sandbars and constructed sandbars below RM 777.7 are believed inundated.

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Burke, Linda F NWO

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From: [REDACTED] NWK  
Sent: Monday, May 09, 2011 6:24 AM  
To: Farhat, Jody S NWD02  
Cc: [REDACTED] NWD02; Shumate, Eric D NWK  
Subject: RE: DRAFT Waverly Deviation Request (UNCLASSIFIED)

Thank you Jody, we will start sending it up the chain.

THANKS!!

[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02  
Sent: Friday, May 06, 2011 8:48 AM  
To: [REDACTED] NWK  
Cc: [REDACTED] NWD02  
Subject: FW: DRAFT Waverly Deviation Request (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] - a few changes to better characterize conditions on the mainstem. Otherwise looks good.

Jody

-----Original Message-----

From: [REDACTED] NWK  
Sent: Thursday, May 05, 2011 1:52 PM  
To: Farhat, Jody S NWD02  
Cc: [REDACTED] NWD02  
Subject: DRAFT Waverly Deviation Request

Jody & [REDACTED]

Attached is a draft deviation request for the Phase I flow rate at the Waverly gage. Please review and let us know your comments and concerns.

THANKS!!

[REDACTED]

Classification: UNCLASSIFIED

Caveats: NONE



Classification: UNCLASSIFIED

Caveats: NONE

All:

Here are 3 good sites for info on the flood, set up by Memphis District:

Follow us on Twitter: <http://twitter.com/#!/MemphisDistrict>

Visit us on the Web: <http://www.mvm.usace.army.mil/> Follow on on Facebook:  
<http://www.facebook.com/pages/Birds-Point-New-Madrid-Floodway-Joint-Information-Center/120898681323357?sk=wall>

Watch us on YouTube: <http://www.youtube.com/user/MemphisDistrictCorps>

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

**From:** Farhat, Jody S NWD02  
**Sent:** Friday, May 06, 2011 3:14 PM  
**To:** Beth Weaver  
**Cc:** Farhat, Jody S NWD02  
**Subject:** RE: MRRIC Water Management Report (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Beth - here are the high points of my report:

2011 is forecast to be the second wettest year on record for the Missouri River Basin. The current forecast calls for 44 MAF of runoff above Sioux City, Iowa. The record runoff was 49.0 MAF in 1997. Other high years were 1978 with 40.6 MAF and 2010 with 38.7 MAF.

Despite the fact all of last year's flood waters were evacuated from the reservoir system, we have already gained over 8.5 MAF of flood water due to the melt of the plains snowpack. To put that in perspective, at the peak last year we had 9.1 MAF of stored flood waters in the system.

The mountain snowpack is currently 135 to 140 percent of normal. It appears that the mountain snowpack may have peaked, but cool temperatures and coupled with additional snow could push those numbers even higher.

Fort Peck is 5 feet below the exclusive flood control zone and is forecast to peak 2 feet into exclusive. Releases will be increased over the coming week to 20,000 cfs. This is require use of the spillway.

Garrison is 3 feet below the exclusive flood control zone and is forecast to peak 2 feet into exclusive. Releases will be increased to 49,000 cfs over the coming week. Releases is excess of the powerplant capacity will be made though the flood tunnels. These high flows will result in a stage of approximately 12 feet in the Bismarck area.

Oahe is just below the base of exclusive and is forecast to remain near that level for the next couple months. The outlet tunnels may be used to pass excess releases if necessary.

Releases from Fort Randall and Gavins Point are forecast to be increased to 55,000 and 57,500 cfs, respectively over the coming week. The spillways at both projects are already in use.

With reservoir levels this high we expect to have very little flexibility to reduce releases for downstream flood control. When releases are reduced for flood control downstream of Gavins Point, that water backs up into Fort Randall and Oahe. We are attempting to preserve some flood storage in those two projects for use in the event of significant downstream floods.

Let me know if you have any questions.

Regards,  
Jody

-----Original Message-----

From: Beth Weaver [<mailto:bweaver@resolv.org>]  
Sent: Wednesday, May 04, 2011 5:22 PM



To: Farhat, Jody S NWD02  
Subject: MRRIC Water Management Report

HI Jody,

When you have some time in the next few days, would you mind sending me your notes from yesterday's water management update? It will be helpful for the May meeting summary.

Thanks!

Beth

Beth Weaver

Program Associate

Description: Description: RESOLVE

1255 23rd St NW, Suite 875

Washington, DC 20037

Ph: 202-965-6211

F: 202-338-1264

[bweaver@resolv.org](mailto:bweaver@resolv.org)

P Please consider the environment before printing this e-mail.

Classification: UNCLASSIFIED  
Caveats: NONE

NWO

**From:** Jeff Dooley [jeff.dooley@dakotadunes.com]  
**Sent:** Friday, May 06, 2011 2:10 PM  
**To:** Farhat, Jody S NWD02  
**Subject:** Gavins Point Projections  
**Attachments:** 20110506\_140344.pdf

Hi Jody:

I was looking at your monthly forecast (attached). Do these forecasts spell out three separate scenarios - average, low and high? Does the 58.5 kcfs from Gavin's Point in the bottom scenario mean you expect to release that amount on average in May? Do the numbers in the discharge row for future months also mean you expect to release that amount on average? The bottom scenario indicates discharge of 68 kcfs, not counting the tributaries that would equate to about 23 ft at Sioux City (if I am thinking about this correctly). What do you foresee as river levels at Sioux City - given normal runoff?

Sorry for all the questions, but this document seems to give good insight on what we might expect. I just want to make sure I am interpreting it correctly.

Thank you in advance for any help on interpreting this document.

-----Original Message-----

**From:** [kim.hoffman@dakotadunes.com](mailto:kim.hoffman@dakotadunes.com) [<mailto:kim.hoffman@dakotadunes.com>]  
**Sent:** Friday, May 06, 2011 2:04 PM  
**To:** [jeff.dooley@dakotadunes.com](mailto:jeff.dooley@dakotadunes.com)  
**Subject:** Scanned image from Dakota Dunes CID

**Reply to:** [kim.hoffman@dakotadunes.com](mailto:kim.hoffman@dakotadunes.com) <[kim.hoffman@dakotadunes.com](mailto:kim.hoffman@dakotadunes.com)> Device  
**Name:** Not Set Device Model: MX-2300N  
**Location:** Not Set

**File Format:** PDF MMR(G4)  
**Resolution:** 200dpi x 200dpi

Attached file is scanned image in PDF format.

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<http://www.adobe.com/>

MAY 1, 2011 / BASIC CONDITION / 44.0 MAF / BALANCED  
 FULL SERV / NAV SEAS +10 DAYS / NO MAY PULSE  
 Elevations & Storages are for Date Shown  
 Avg Discharge & Energy are Monthly Values  
 Date of Study: May 1, 2011

	2011									2012	
	30-Apr-11	31-May	30-Jun	31-Jul	31-Aug	30-Sep	31-Oct	30-Nov	31-Dec	31-Jan	29-Feb
FORT PECK -----											
ELEV FTMSL	2240.9	2243.1	2247.9	2247.7	2245.3	2242.7	2240.4	2238.3	2236.8	2235.2	2234.0
DISCH KCFS	7.1	18.0	20.0	20.0	16.0	15.0	14.0	14.0	12.0	13.0	13.0
GARRISON -----											
ELEV FTMSL	1847.3	1847.4	1851.5	1852.2	1849.1	1845.7	1842.6	1840.0	1839.7	1838.4	1837.5
DISCH KCFS	14.9	43.0	49.0	49.0	46.0	43.0	38.0	37.7	19.0	25.0	25.0
OAHE -----											
ELEV FTMSL	1616.9	1616.3	1616.5	1615.6	1614.0	1612.0	1610.5	1608.4	1606.7	1606.9	1607.5
DISCH KCFS	26.0	50.0	52.6	54.1	52.5	54.1	45.9	48.6	27.6	23.5	22.7
BIG BEND -----											
ELEV FTMSL	1420.6	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	24.9	50.6	52.6	54.0	52.2	53.7	45.6	48.3	27.4	23.5	22.7
FORT RANDALL ----											
ELEV FTMSL	1359.0	1359.0	1359.0	1358.0	1355.2	1353.5	1345.0	1337.5	1339.3	1344.8	1350.0
DISCH KCFS	27.7	52.8	55.0	56.0	56.1	56.1	55.7	55.8	25.7	18.2	17.0
GAVINS POINT ----											
ELEV FTMSL	1205.3	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	30.3	54.5	57.5	57.5	57.5	57.5	57.5	57.5	28.0	20.0	20.0
SYSTEM -----											
STORAGE 1000 AF	65497	65825	68542	68321	65822	63197	60477	58005	57153	56832	56812
ENERGY GWh	12861	1517	1497	1567	1543	1501	1422	1367	877	820	752
PEAK POWER MW		2377	2383	2386	2390	2381	2355	2290	2292	2313	2320

MAY 1, 2011 / LOWER BASIC / 38.8 MAF / BALANCED  
 FULL SERV / NAV SEAS +10 DAYS / NO MAY PULSE

	2011									2012	
	30-Apr-11	31-May	30-Jun	31-Jul	31-Aug	30-Sep	31-Oct	30-Nov	31-Dec	31-Jan	29-Feb
FORT PECK -----											
ELEV FTMSL	2240.9	2241.9	2245.6	2245.3	2242.8	2240.9	2239.6	2238.3	2237.0	2235.4	2234.0
DISCH KCFS	7.1	18.0	17.0	16.0	14.0	11.3	9.0	9.0	9.0	11.0	11.0
GARRISON -----											
ELEV FTMSL	1847.3	1846.5	1849.9	1849.9	1846.8	1844.5	1843.2	1842.1	1840.8	1839.0	1837.5
DISCH KCFS	14.9	43.0	42.0	42.0	40.0	29.9	21.0	21.0	19.0	24.0	24.0
OAHE -----											
ELEV FTMSL	1616.9	1615.9	1616.0	1616.0	1615.7	1613.6	1611.4	1608.5	1607.4	1607.3	1607.5
DISCH KCFS	26.0	51.1	45.0	41.4	38.5	40.9	32.5	35.2	23.7	24.0	23.4
BIG BEND -----											
ELEV FTMSL	1420.6	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	24.9	51.7	45.0	41.2	38.1	40.3	32.1	34.8	23.5	24.0	23.4
FORT RANDALL ----											
ELEV FTMSL	1359.0	1359.0	1359.0	1358.5	1355.2	1353.5	1345.0	1337.5	1339.2	1344.8	1349.9
DISCH KCFS	27.7	53.5	46.8	42.2	42.5	42.5	42.1	42.2	21.8	18.6	17.5
GAVINS POINT ----											
ELEV FTMSL	1205.3	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	30.3	54.5	49.0	43.5	43.5	43.5	43.5	43.5	23.5	20.0	20.0
SYSTEM -----											
STORAGE 1000 AF	65497	65091	67216	67071	65003	62927	60780	58764	57785	57160	56835
ENERGY GWh	11332	1528	1405	1395	1356	1244	1053	1029	768	811	744
PEAK POWER MW		2373	2381	2386	2400	2390	2366	2305	2299	2317	2320

MAY 1, 2011 / UPPER BASIC / 49.2 MAF / BALANCED  
 FULL SERV / NAV SEAS +10 DAYS / NO MAY PULSE

	2011									2012	
	30-Apr-11	31-May	30-Jun	31-Jul	31-Aug	30-Sep	31-Oct	30-Nov	31-Dec	31-Jan	29-Feb
FORT PECK -----											
ELEV FTMSL	2240.9	2244.3	2250.0	2249.7	2246.1	2242.9	2240.1	2237.5	2236.3	2235.0	2234.0
DISCH KCFS	7.1	20.0	26.0	26.0	24.0	20.0	18.0	18.0	12.0	13.0	13.0
GARRISON -----											
ELEV FTMSL	1847.3	1848.0	1853.0	1854.0	1850.3	1846.2	1843.2	1840.9	1840.3	1838.7	1837.5
DISCH KCFS	14.9	48.5	61.5	61.5	61.5	54.2	44.0	42.1	22.0	28.0	28.0
OAHE -----											
ELEV FTMSL	1616.9	1616.1	1617.0	1616.9	1617.0	1615.4	1613.5	1610.8	1607.1	1607.1	1607.5
DISCH KCFS	26.0	57.4	62.2	62.4	59.4	63.8	55.7	58.2	41.2	27.8	27.1
BIG BEND -----											
ELEV FTMSL	1420.6	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	24.9	58.0	62.2	62.3	59.1	63.5	55.5	58.1	41.0	27.8	27.1
FORT RANDALL ----											
ELEV FTMSL	1359.0	1362.0	1362.0	1360.0	1355.2	1353.4	1344.9	1337.4	1339.2	1344.7	1349.9
DISCH KCFS	27.7	56.4	65.1	66.0	66.2	66.2	65.8	65.8	39.5	22.6	21.6
GAVINS POINT ----											
ELEV FTMSL	1205.3	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	30.3	58.5	68.0	68.0	68.0	68.0	68.0	68.0	42.0	25.0	25.0
SYSTEM -----											
STORAGE 1000 AF	65497	66549	70073	70143	67468	64622	61617	58911	57392	56924	56807
ENERGY GWh	13996	1597	1566	1629	1620	1572	1562	1478	1164	942	868
PEAK POWER MW		2348	2356	2374	2401	2394	2369	2300	2296	2314	2320

[REDACTED] NWO

**From:** [REDACTED] NWD  
**Sent:** Tuesday, May 10, 2011 6:50 PM  
**To:** [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWD  
**Subject:** FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
**Attachments:** Congressional - Baucus Transportation and Infrastructure Subcommittee, 4 Apr 11.pdf  
**Importance:** High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] - pls coordinate with [REDACTED]'s group on MT flooding issue. Thx [REDACTED]

-----Original Message-----

**From:** [REDACTED] NWD  
**Sent:** Tuesday, May 10, 2011 12:02 PM  
**To:** E [REDACTED] NWO  
**Cc:** S [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD; [REDACTED] NWD  
**Subject:** FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
**Importance:** High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
As we just discussed on the phone, attached is Senator Baucus's letter to [REDACTED]. Please provide me with the consolidated District draft response by noon Pacific time on Friday, so we can review and make any necessary edits prior to transmittal to [REDACTED].

Thanks!

[REDACTED]

-----Original Message-----

**From:** Fleming, Lisa HQ  
**Sent:** Tuesday, May 10, 2011 11:39 AM  
**To:** [REDACTED] NWD; [REDACTED] NWD  
**Cc:** [REDACTED] NWK; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD  
**Subject:** FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
**Importance:** High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED], would you please work with the Omaha District to get a draft response to Senator Baucus's letter to Ms [REDACTED]?

[REDACTED], would you please insert a draft section into the response addressing the levee piece?

I need the draft response back by COB this Friday.

Thanks for your help!

[REDACTED]  
[REDACTED]  
Northwestern Division  
Regional Integration Team (RIT)  
U.S. Army Corps of Engineers  
441 G Street, NW  
3C93  
Washington, D.C. 20314-1000

202-461-4005 (voice)  
202-461-5050 (fax)  
301-257-1604 (mobile)

[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] HQ02  
Sent: Monday, May 09, 2011 6:08 PM  
To: [REDACTED] NWK  
Cc: [REDACTED] NWD  
Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
In [REDACTED] absence.

-----Original Message-----

From: [REDACTED] HQ02  
Sent: Monday, May 09, 2011 6:07 PM  
To: [REDACTED]  
Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
Heads-up.

This tasker will be coming down thru official channels, shortly (see below).  
Since the suspense date for [REDACTED] signature is 23 May, recommend that you plan on having your draft at [REDACTED] NLT noon on Thu 19 May.

-----Original Message-----

From: Kelley, Moira L Ms CIV USA ASA CW [mailto:[REDACTED]@usace.army.mil]  
Sent: Monday, May 09, 2011 5:21 PM  
To: Lacey, Angela D Ms CIV USA ASA CW

Cc: [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED]  
HQ02; [REDACTED] CIV USA ASA CW; Jorns, Byron COL HQDA; [REDACTED] HQ02;  
[REDACTED] HQ02; Smith, Tong I LTC HQ02; MacDonald, Glen A MAJ HQ  
Subject: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I  
Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
Can you please assign a tasker to the attached regarding Senator Baucus's questions about  
flooding, levee accreditation and studies and projects in Montana.

The action officer is [REDACTED]

The suspense date is May 23.

Thanks,  
[REDACTED]

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

# United States Senate

WASHINGTON, DC 20510-2602

INTERNET:  
<http://baucus.senate.gov>

April 4, 2011

**RECEIVED**

MAY 02 2011

Office of the ASA (CW)  
Washington, DC

The Honorable [REDACTED]

United States Department of the Army  
108 Army Pentagon Room 3e446  
Washington, D.C. 20310-0108

Dear Assistant Secretary [REDACTED]

Once again, thank you for appearing before the Transportation and Infrastructure Subcommittee to the Environment and Public Works Committee to discuss on the US Army Corps of Engineers proposed 2012 budget. As a follow up to your appearance, I would like to submit questions for your consideration regarding a couple of specific projects that are very important to my state of Montana. The questions regard: projected flooding in Montana and the Corps' response; levee accreditation in floodplains, especially in light of recent FEMA map modernization; the Missouri River Authorized Purposes Study; the Intake Diversion Dam; and, the St. Mary Diversion and Conveyance Works.

## MONTANA FLOODING QUESTIONS:

1. Forecasts indicate Montana faces the likelihood of a high flood risk this Spring. The Milk River Basin has surpassed its' record snowfall amount with approximately 105 inches for the year. The current snow water equivalent maps are showing areas of 8 to 14" of snow water equivalent in the areas between Havre and Malta and areas of 1 to 6" of snow water equivalent between Malta and Wolf Point. Snow water equivalent is the amount of water in the current snowpack. The Corps has stated that given this data, there is a good chance Montana will possibly see record flooding this Spring.

Can you tell me what steps the Corps is taking to prepare for this flood risk?

2. Do you need additional resources to prevent the loss of life and property should these floods turn out as bad as anticipated?

## LEVEE ACCREDITATION QUESTIONS:

1. In 2008, the Army Corps changed its policy regarding levee certification and discontinued certifying federally-constructed, non-federally operated levees. This has occurred at the same time that FEMA has undertaken a flood map modernization program, resulting in hardship for small communities in my home state of Montana that can't afford third-party levee

accreditation. In many cases the Corps has built the levee, has inspected the levee for years, and now refuses to provide accreditation for the levee.

[REDACTED] in your testimony, you note the Corps is pursuing a \$50 million comprehensive levee safety initiative. How does it apply to small cash-strapped communities who suddenly find themselves in a floodplain for the first time and can't afford levee accreditation?

2. During the hearing, you stated you would review the Corps of Engineers' policy on levee accreditation, can you tell me what is the timeline for this review?

3. How soon can my constituents expect to receive a summary of your findings and an indication of the Corps' policy going forward?

4. What steps does the Corps take to ease the financial burden FEMA's map modernization places on small communities?

5. The Corps and FEMA need to work together on these levee certifications. I know that the Corps and FEMA leadership meet quarterly to coordinate policies. What have you learned from these meetings and what steps has the Corps taken in the past year to improve coordination with FEMA? For example, how does the Corps coordinate the Periodic Inspections it routinely conducts on levees with FEMA's map modernization program?

6. Is the Corps' application of this new policy not to conduct levee accreditation being applied uniformly?

#### MISSOURI RIVER AUTHORIZED PURPOSES STUDY

1. As you know, Congress appropriated \$25 million for the Missouri River Authorized Purposes Study to review the project purposes established by the Flood Control Act of 1944. The Study is supposed to analyze the eight authorized purposes in light of current needs to determine if changes to the existing purposes and existing Federal water resource infrastructure may be warranted.

To me, it would seem like a waste of money to do half a report when the scoping portion has been released in draft form just this month. Can I get your agreement that you will not support recent Missouri delegation efforts to zero-fund the Study?

#### INTAKE DIVERSION DAM QUESTIONS:

1. [REDACTED] in your testimony you mention "....\$73 million for ongoing work under the Missouri River Fish and Wildlife Recovery program to construction shall water habitat and undertake other activities to recover and protect Federally-listed species, such as the pallid sturgeon." Can you tell me how does that apply to the Intake Diversion Dam project in Montana?



2. The Corps put Phase 2 of the project on hold when the project's cost increased because it was determined that different, more expensive granite was needed for the riverbed ramp. Was this foreseeable that a more expensive material would ultimately be needed?

3. Is the Corps taking steps to prevent future cost overruns?

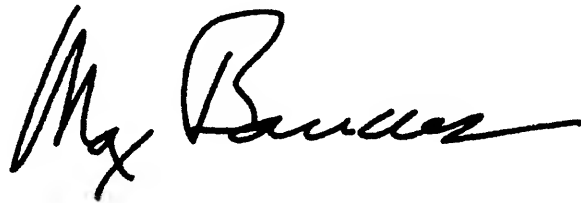
ST. MARY DIVERSION AND CONVEYANCE WORKS QUESTIONS:

1. [REDACTED] as you know, I managed to get a \$153 million authorization for the Corps to work with the Bureau of Reclamation on the St. Mary Diversion works, a project that diverts water from the Milk River to systems across northern Montana. Later, Senator Tester and I followed up with a \$500,000 appropriation to the Bureau of Reclamation to start the process.

Can you tell me what is being done on this? Can the Corps and the Bureau of Reclamation work together to undertake the cooperative agreement between the two agencies?

Thank you very much, in advance, for your consideration of these questions. The favor of a timely response would be very much appreciated. And, again, thank you for appearing before the Subcommittee.

Sincerely,

A handwritten signature in black ink, appearing to read "Max Baucus". The signature is fluid and cursive, with a long horizontal stroke at the end.

[REDACTED] NWO

**From:** [REDACTED] NWD  
**Sent:** Tuesday, May 10, 2011 3:04 PM  
**To:** Farhat, Jody S NWD02  
**Cc:** Anderson, G Witt NWD; [REDACTED] NWD  
**Subject:** RE: Letter in our tasking system (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Jody,

No, this is great. The reasoning behind not initially giving this a tasking number was exactly what you stated - that the letter was not from a Congressional, Governor, or Tribal Chair and seemed to be just commenting. That doesn't preclude us from responding - it just wouldn't necessarily fall under our tasking/tracking system. But, thanks for the response, Jody! I look forward to seeing it come through our office for the CG's signature and appreciate your efforts!

[REDACTED]  
[REDACTED]  
Northwestern Division  
U.S. Army Corps of Engineers

-----Original Message-----  
**From:** Farhat, Jody S NWD02  
**Sent:** Tuesday, May 10, 2011 12:35 PM  
**To:** [REDACTED] NWD  
**Cc:** Anderson, G Witt NWD; [REDACTED] NWD  
**Subject:** RE: Letter in our tasking system (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] - we have prepared a response for the CG's signature and sent to it [REDACTED] yesterday for routing and signature.

I'm not sure I follow the reasoning why a response may not be needed. Is it because they are just commenting and not really asking for anything? We don't respond to comment letters on our AOP unless they are from Congressionals, governors or Tribal Chairmen, but I didn't think this letter wouldn't fall into that category.

Let me know if you have any questions or if you want us to proceed differently.

Thanks,  
Jody

-----Original Message-----  
**From:** [REDACTED] NWD  
**Sent:** Tuesday, May 10, 2011 1:58 PM

To: Farhat, Jody S NWD02  
Cc: Anderson, G Witt NWD; [REDACTED] NWD  
Subject: Letter in our tasking system (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Jody,

I just found this letter in our tasking system - it has been given the number 11-006. I don't believe BG McMahon needs to provide a response, so we normally wouldn't track it, but I thought you should be aware of it, in case you haven't seen it. (We probably should have sent it directly to you upon receipt).

[REDACTED]  
[REDACTED]  
Northwestern Division  
U.S. Army Corps of Engineers  
[REDACTED]

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] NWO

---

**From:** [REDACTED] NWD  
**Sent:** Tuesday, May 10, 2011 1:58 PM  
**To:** Farhat, Jody S NWD02  
**Cc:** Anderson, G Witt NWD; [REDACTED] NWD  
**Subject:** Letter in our tasking system (UNCLASSIFIED)  
**Attachments:** 11-006 State of North Dakota Ltr.pdf

Classification: UNCLASSIFIED  
Caveats: NONE

Jody,

I just found this letter in our tasking system - it has been given the number 11-006. I don't believe BG McMahon needs to provide a response, so we normally wouldn't track it, but I thought you should be aware of it, in case you haven't seen it. (We probably should have sent it directly to you upon receipt).

[REDACTED]  
[REDACTED]  
Northwestern Division  
U.S. Army Corps of Engineers

[REDACTED]  
503-608-5703

Classification: UNCLASSIFIED  
Caveats: NONE



# State of North Dakota

## Office of the State Engineer

900 EAST BOULEVARD AVE. • BISMARCK, ND 58505-0850  
701-328-2750 • FAX 701-328-3696 • <http://swc.nd.gov>

April 20, 2011

Brigadier General John R. McMahon  
Commander and Division Engineer  
U.S. Army Corps of Engineers  
1125 NW Couch St., Suite 500  
Portland, OR 97209

RE: High Missouri River System Reservoir Levels

Dear Brigadier General McMahon:

I am concerned with the high levels of Lake Sakakawea and Lake Oahe, and the above normal snowpack that will be generating a great deal of additional runoff. We are concerned your forecast does not adequately address the current conditions in the basin and the potential for above normal precipitation this summer.

As of April 20, Lake Oahe had the second highest daily April elevation of 1616.8 feet, only to be exceeded in April 1997; and Lake Sakakawea had the third highest daily April elevation of 1845.1 feet, surpassed by April of 1972, and 1997. The mountain snowpack is well above average at 114% and the plains spring runoff is currently ongoing. The downstream discharges seem low compared to the mountain snowpack, and the current availability of flood storage.

I ask the Corps to limit the usage of the exclusive flood pools to only when absolutely necessary. We urge the Corps to be cognizant of impacts that high releases out of the dams have on channel erosion, and encourage the Corps to have enough foresight so the evacuation of water can be made in an orderly fashion and limit unnecessary peaking. I also ask the Corps to review the runoff forecast and ensure its accuracy.

I thank you for taking my concerns under consideration.

Sincerely,

Todd Sando, P.E.  
State Engineer

TS:BE:KC:mmb/1392

**received**  
APR 25 2011

[REDACTED] NWO

**From:** [REDACTED] NWD  
**Sent:** Tuesday, May 10, 2011 1:53 PM  
**To:** Anderson, G Witt NWD  
**Cc:** [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02; Blechinger, Erik T NWO; [REDACTED] NWD; [REDACTED] HQ  
**Subject:** FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
**Attachments:** Congressional - Baucus Transportation and Infrastructure Subcommittee, 4 Apr 11.pdf  
**Importance:** High

Classification: UNCLASSIFIED  
Caveats: NONE

Witt,

I have given this our tasker number 11-007. Not sure if [REDACTED] is needing input from the Omaha side for the MRAPS questions, or any other - thought I'd cc Jody and Erik on this one, to be on the safe side.

[REDACTED]  
Northwestern Division  
U.S. Army Corps of Engineers  
[REDACTED]

-----Original Message-----

**From:** [REDACTED]  
**Sent:** Tuesday, May 10, 2011 11:39 AM  
**To:** [REDACTED]; [REDACTED] NWD  
**Cc:** [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD  
**Subject:** FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
**Importance:** High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] would you please work with the Omaha District to get a draft response to Senator Baucus's letter to [REDACTED]

Steve, would you please insert a draft section into the response addressing the levee piece?

I need the draft response back by COB this Friday.

Thanks for your help!

[REDACTED]  
Northwestern Division

202- [REDACTED] (voice)  
202- [REDACTED] (fax)  
301- [REDACTED] (mobile)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]

Can you please assign a tasker to the attached regarding Senator Baucus's questions about flooding, levee accreditation and studies and projects in Montana.

The action officer is [REDACTED]

The suspense date is May 23.

Thanks,  
[REDACTED]

Classification: UNCLASSIFIED  
Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE



# United States Senate

WASHINGTON, DC 20510-2602

INTERNET:  
<http://baucus.senate.gov>

April 4, 2011

**RECEIVED**

MAY 02 2011

Office of the ASA (CW)  
Washington, DC

The Honorable [REDACTED]

United States Department of the Army  
108 Army Pentagon Room 3e446  
Washington, D.C. 20310-0108

Dear Assistant Secretary [REDACTED]

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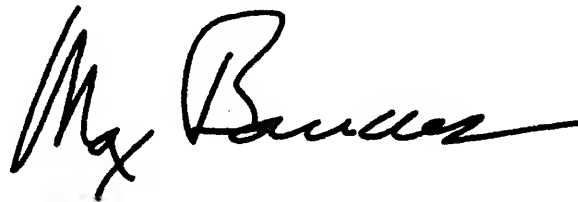
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Sincerely,

A handwritten signature in black ink, appearing to read "Max Baucus". The signature is fluid and cursive, with a long horizontal stroke at the end.

[REDACTED] NWO

From: [REDACTED] NWD02  
Sent: Tuesday, May 10, 2011 12:35 PM  
To: Farmer, Monique L NWO  
Cc: Farhat, Jody S NWD02; [REDACTED] NWD02  
Subject: RE: Post on our FB page (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Monique,

[REDACTED] and I made a couple edits - see below. You might also want to run this past [REDACTED],  
[REDACTED] at Fort Randall. He's familiar with the Hurd's.

- [REDACTED]  
=====

Mary: It is unfortunate that your family's farm has been impacted. As you know, this year the Midwest has seen some very high snow totals, both in the plains and in the mountains. Our latest forecast indicates that 2011 may likely be the second highest runoff in 113 years, exceeded only in 1997. As we continue to fight floods throughout the basin, we must evacuate stored floodwaters in the system as quickly and as safely as possible in order to be prepared for upcoming flood events. Mountain snowpack continues to accumulate, and as the temperatures warm up we will begin to see much of that snowpack runoff over the next few months. We have already stored more than 8 million acre-feet of water in the system's flood control storage zone. To put that into perspective, the total amount of flood waters evacuated from the system during 2010 was 9 million acre-feet. Public safety is our number one priority as we work to fight floods throughout the Missouri River basin. Thank you for sharing your photo with us. If you would like to do so, we invite you to contact us with your concerns, comments and/or questions at 888-835-5971, X-2418.

-----Original Message-----

From: Farmer, Monique L NWO  
Sent: Tuesday, May 10, 2011 11:05 AM  
To: Farhat, Jody S NWD02  
Cc: [REDACTED] NWD02; Oldham, Margaret NWO  
Subject: Post on our FB page (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Jody/Kevin:

The message below was posted to the Omaha district Facebook Page. As part of our social media communications plan, we practice responding to questions and posts of this nature within a 24-hour period. This post has been sitting on the page for 17 hours thus far. I recommend the response below, and solicit your feedback/input before I post.

Thanks in advance,

MF

\*\*\*

Direct Link to message and photo posted:

<http://www.facebook.com/OmahaUSACE?sk=wall#!/photo.php?fbid=144917232246249&set=o.160260947323251&type=1&theater>

FB Post from Mary Hurd:

This is our farm -- some of the best cropland in the state of South Dakota -- and our private park, completely devastated by Missouri River flooding. We are halfway between Gavins Point and Fort Randall -- about a mile east of the Verdel, Nebraska, river gauge. This is the worst flooding we have ever experienced (since the dams were built), and we are told the water will get higher yet.

Our response:

Mary: We are sorry to hear about the devastation that has impacted your family's farm. As you know, this year the midwest has been hit by some of the highest water levels we have seen in the history of the construction of the Missouri River main stem system. As we continue to fight floods throughout the basin, we must evacuate stored floodwaters in the system as quickly and as safely as possible in order to maintain control over floodwaters and be prepared for upcoming flood events. Mountain snowpack continues to accumulate in the Yellowstone River basin and as the temperatures warm up, we will begin to see much of that snowpack runoff. We have already evacuated more than 8 million acre-feet of water from the system. To put that into perspective, the total amount evacuated from the system for the entire year was 9 million acre-feet. Public safety is our number one priority as we work to fight floods throughout the Missouri River basin. We consider downstream conditions as we make adjustments to our releases in order to proceed with the necessary evacuation of floodwaters, and when possible and feasible, we decrease releases to allow downstream floodwaters to recede before we release floodwaters from upstream. Because there is so much floodwater in the system and the forecast suggests above average precipitation, we must remain vigilant and release floodwaters in advance of above average precipitation events to maintain control of flood fights, provide flood damage reduction to communities and prevent uncontrolled releases which can pose risks to the integrity of the dams. Thank you for sharing your photo with us. If you would like to do so, we invite you to contact us with your concerns, comments and/or questions at 888-835-5971, X-2418.

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

**NWO**

**From:** [REDACTED] NWO  
**Sent:** Tuesday, May 10, 2011 11:32 AM  
**To:** Farhat, Jody S NWD02; [REDACTED] NWD02  
**Cc:** [REDACTED] NWO; Thomas, Kimberly S NWO; [REDACTED] NWO  
**Subject:** RE: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I just spoke with Kelly Casteel from the State Water Commission. She indicated that the meeting at the State EOC this Thursday is to discuss our scheduled releases and associated river stages in the Bismarck/Mandan area. She indicated that they want to get all the key players together to make them aware of our planned releases, discuss anticipated impacts/complaints and discuss issues which may need to be addressed with the public. I plan to attend and represent USACE. I will keep everyone apprised of issues that surface following the meeting.

-----Original Message-----

**From:** [REDACTED] NWO  
**Sent:** Monday, May 09, 2011 5:21 PM  
**To:** Farhat, Jody S NWD02; [REDACTED] NWD02  
**Cc:** [REDACTED] NWO; Thomas, Kimberly S NWO  
**Subject:** RE: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I agree with the pause. FYI, I just received a meeting invite from the ND EOC regarding Missouri River Operations. The meeting is scheduled for this Thursday afternoon. The invite did not list the topics, so I replied to the invite requesting additional information. I'll let everyone know what the issues, or concerns, are but I think we should proceed cautiously as we approach that 49,000 cfs release mark.

FYI, we can make gate changes whenever needed...

-----Original Message-----

**From:** Farhat, Jody S NWD02  
**Sent:** Monday, May 09, 2011 2:33 PM  
**To:** [REDACTED] NWD02; [REDACTED] NWO  
**Subject:** RE: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I think there's value in a pause if [REDACTED] agrees. Bismarck is already at 10.5 feet. Might be good to hold the 44 on Wednesday and then slowly step up to the 49 release. We don't want any surprises. Is there an issue making gate changes over the weekend?

Jody

-----Original Message-----

From: [REDACTED] Michael A NWD02  
Sent: Monday, May 09, 2011 2:25 PM  
To: [REDACTED] NWO; Farhat, Jody S NWD02  
Subject: RE: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED]  
We have 44,000 cfs scheduled for tomorrow, which is a 3,000 cfs increase. On the forecast we showed slowing the increases down after that, although we still had 46 for Wednesday, 48 on Thursday and 49 on Friday. We can definitely stay on any of those releases for an extra day or two if necessary.

Jody, any thoughts?

[REDACTED]  
-----Original Message-----

From: [REDACTED] NWO  
Sent: Monday, May 09, 2011 2:02 PM  
To: Farhat, Jody S NWD02; [REDACTED] Michael A NWD02  
Subject: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I see that we are going to 44,000 cfs daily average releases from Garrison tomorrow. During previous conversations, I was told that we'd likely "Take a pause" in increases once we got to the mid 40,000 cfs releases, in order to assess the impacts downstream. Is that still the plan?

[REDACTED]  
[REDACTED]  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
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**NWO**

**From:** Farmer, Monique L NWO  
**Sent:** Tuesday, May 10, 2011 11:05 AM  
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**Cc:** [REDACTED] NWD02; Oldham, Margaret NWO  
**Subject:** Post on our FB page (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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Thanks in advance,

MF

\*\*\*

Direct Link to message and photo posted:

<http://www.facebook.com/OmahaUSACE?sk=wall#!/photo.php?fbid=144917232246249&set=o.160260947323251&type=1&theater>

FB Post from Mary Hurd:

This is our farm -- some of the best cropland in the state of South Dakota -- and our private park, completely devastated by Missouri River flooding. We are halfway between Gavins Point and Fort Randall -- about a mile east of the Verdel, Nebraska, river gauge. This is the worst flooding we have ever experienced (since the dams were built), and we are told the water will get higher yet.

Our response:

Mary: We are sorry to hear about the devastation that has impacted your family's farm. As you know, this year the midwest has been hit by some of the highest water levels we have seen in the history of the construction of the Missouri River main stem system. As we continue to fight floods throughout the basin, we must evacuate stored floodwaters in the system as quickly and as safely as possible in order to maintain control over floodwaters and be prepared for upcoming flood events. Mountain snowpack continues to accumulate in the Yellowstone River basin and as the temperatures warm up, we will begin to see much of that snowpack runoff. We have already evacuated more than 8 million acre-feet of water from the system. To put that into perspective, the total amount evacuated from the system for the entire year was 9 million acre-feet. Public safety is our number one priority as we work to fight floods throughout the Missouri River basin. We consider downstream conditions as we make adjustments to our releases in order to proceed with the necessary evacuation of floodwaters, and when possible and feasible, we decrease releases to allow downstream floodwaters to recede before we release floodwaters from upstream. Because there is so much floodwater in the system and the forecast suggests above average precipitation, we must remain vigilant and release floodwaters in advance of above average precipitation events to maintain control of flood fights, provide flood damage reduction to communities and prevent uncontrolled releases which can pose risks to the integrity of the dams. Thank you for



sharing your photo with us. If you would like to do so, we invite you to contact us with your concerns, comments and/or questions at 888-835-5971, X-2418.

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED] NWO

**From:** [REDACTED] NWO  
**Sent:** Tuesday, May 10, 2011 7:25 AM  
**To:** CENWD-EOC NWD; [REDACTED] NWS; [REDACTED] NWP; [REDACTED] NWW; [REDACTED] NWK  
**Cc:** [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S  
**Subject:** RE: Potential Flooding Briefing to CG next Monday 1300 Pacific Time (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Can you please send the link?

Thanks,  
[REDACTED]

[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102  
[REDACTED] Office  
[REDACTED] Blackberry  
[REDACTED]@usace.army.mil

-----Original Message-----

**From:** CENWD-EOC NWD  
**Sent:** Monday, May 09, 2011 3:44 PM  
**To:** [REDACTED] NWS; [REDACTED] NWP; [REDACTED] NWW; [REDACTED] NWO;  
[REDACTED] NWK  
**Cc:** [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; Farhat, Jody S NWD02  
**Subject:** Potential Flooding Briefing to CG next Monday 1300 Pacific Time

Emergency Managers,

Bottom Line, Water Management Division at NWD has expressed concern that there is a significant threat of potential for flooding in our AOR. This is based on the volume of snow pack which currently ranges from about 100% to 175% of average or more, across the region.

So, the CG is going to expect an update from each District and both Water Management Divisions (Columbia and Missouri) in terms of their own assessment of potential flooding. Be prepared to brief your update next week as part of the 1300 NWD CMT briefing (for NLE-11). The Discussion was focused on conditions primarily in the three western Districts, but I would definitely anticipate that NWO and NWK be prepared to give their assessment as well.

We had the flood season kickoff events for all the Districts already and the format will be the same. The link below will take you to the slides we used for the Missouri River Basin Flood Season Kickoff event in March, if you need a refresher. Since the main driver is the weather, I would say we can probably make the deadline to get slides in by about 1000hrs on Monday. By Wednesday, I will set up a SharePoint folder for you to drop your presentations in so we have a shell at least.

Call me on [REDACTED] with questions or concerns.

[REDACTED]  
[REDACTED]  
Contingency Operations Officer  
Readiness and Contingency Operations  
Northwestern Division  
US Army Corps of Engineers  
Desk: [REDACTED]  
Cell: [REDACTED]  
[REDACTED]@usace.army.mil  
[REDACTED]@usace.army.smil.mil  
Emergency Cell: [REDACTED]

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Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Monday, May 09, 2011 5:21 PM  
To: Farhat, Jody S NWD02; [REDACTED] NWD02  
Cc: [REDACTED] NWO; Thomas, Kimberly S NWO  
Subject: RE: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I agree with the pause. FYI, I just received a meeting invite from the ND EOC regarding Missouri River Operations. The meeting is scheduled for this Thursday afternoon. The invite did not list the topics, so I replied to the invite requesting additional information. I'll let everyone know what the issues, or concerns, are but I think we should proceed cautiously as we approach that 49,000 cfs release mark.

FYI, we can make gate changes whenever needed...

-----Original Message-----  
From: Farhat, Jody S NWD02  
Sent: Monday, May 09, 2011 2:33 PM  
To: [REDACTED] NWD02; [REDACTED] NWO  
Subject: RE: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I think there's value in a pause if Todd agrees. Bismarck is already at 10.5 feet. Might be good to hold the 44 on Wednesday and then slowly step up to the 49 release. We don't want any surprises. Is there an issue making gate changes over the weekend?

Jody

-----Original Message-----  
From: [REDACTED] A NWD02  
Sent: Monday, May 09, 2011 2:25 PM  
To: [REDACTED] NWO; Farhat, Jody S NWD02  
Subject: RE: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED]  
We have 44,000 cfs scheduled for tomorrow, which is a 3,000 cfs increase. On the forecast we showed slowing the increases down after that, although we still had 46 for Wednesday, 48 on Thursday and 49 on Friday. We can definitely stay on any of those releases for an extra day or two if necessary.

Jody, any thoughts?

-----Original Message-----

From: [REDACTED] NWO  
Sent: Monday, May 09, 2011 2:02 PM  
To: Farhat, Jody S NWD02; [REDACTED] NWD02  
Subject: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I see that we are going to 44,000 cfs daily average releases from Garrison tomorrow. During previous conversations, I was told that we'd likely "Take a pause" in increases once we got to the mid 40,000 cfs releases, in order to assess the impacts downstream. Is that still the plan?

[REDACTED]  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

**From:** [REDACTED] NWD02  
**Sent:** Monday, May 09, 2011 3:19 PM  
**To:** [REDACTED] NWO  
**Cc:** [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWD02; [REDACTED]  
**Subject:** RE: Water Management Office Releases and FY 11 ESH Construction (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
As we discussed on the phone last week, Water management expects the evacuation of flood waters to be near 1997 levels. We anticipate habitat being created through this event similar to what happened in 1997. We expect plenty of habitat to be created through this evacuation in the Lewis and Clark headwaters, below Gavins Point and Garrison Dams. Water management suggests ESH be constructed in those areas other than these reaches. The money could be better spent elsewhere.

We also may have an opportunity to drop flows for a few days midway through the evacuation period to assess what if any habitat is created. The question is: Does it take a full 7 months to create the habitat or will habitat be created in a shorter time period at these flow levels? I don't think we want to miss this opportunity to learn something! I assume we are poised to capture acreage of habitat created before next nesting season?

Thanks  
[REDACTED]

-----Original Message-----

**From:** [REDACTED] NWO  
**Sent:** Monday, May 09, 2011 2:32 PM  
**To:** [REDACTED] C NWD02  
**Cc:** [REDACTED] NWO  
**Subject:** Water Management Office Releases and FY 11 ESH Construction (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
Thanks for checking with Jody last week on Water Management's position on ESH creation during the upper basic flow releases. Would you please send me an email stating what you told me on Friday so I can have it for my records?

I think we are going to proceed as planned with construction of sandbar complexes at river miles 759, 761, 827 and 844. We are heading to Bismarck on Wednesday to discuss construction in the area of 1295 on Lake Oahe in North Dakota. If we can't build at 1295 this year, we will have everything ready to build in FY 12.

If you have any questions, please give me a buzz at x2505.

Thank you!  
[REDACTED]

[REDACTED] F NWO

From: [REDACTED] NWK  
Sent: Monday, May 09, 2011 2:58 PM  
To: Farhat, Jody S NWD02  
Cc: [REDACTED] NWD02  
Subject: FW: Truman Forecast (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

FYI

[REDACTED]  
[REDACTED]  
Engineering Division  
Kansas City District, Corps of Engineers  
601 East 12th Street, Suite 547  
Kansas City, MO 64106-2896  
[REDACTED]

-----Original Message-----

From: [REDACTED] NWK  
Sent: Monday, May 09, 2011 2:38 PM  
To: [REDACTED] NWK; [REDACTED] NWK  
Cc: [REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK  
Subject: FW: Truman Forecast (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

See the Truman forecast below. We are beginning to generate this afternoon and going up to a 28,000 cfs release tomorrow. The 5-day outlook shows some rain on Wednesday, but nothing significant at this time. We should be able to make some significant headway on lowering the lake elevation this week.

[REDACTED]  
[REDACTED]  
USACE - Kansas City District  
[REDACTED]

-----Original Message-----

From: [REDACTED] NWK  
Sent: Monday, May 09, 2011 8:57 AM  
To: [REDACTED] NWK  
Subject: Truman Forecast (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
Truman went up 0.30' over the past 24 hours. No rain was reported, but rain is in the forecast Wednesday and Thursday and again on Saturday. Links provided below. Release set at 10,000 cfs today and 4 units at 28,000 cfs Tuesday through 13 May.

Target Pool: 706.00  
0000 Lake elevation: 713.94 (7.94 feet high)  
24 Hour change: +0.30 feet  
Today's Release: 10,000 cfs

Days	Date	Elev	Storage	Inflow	Release	%/FC
1	5/9/2011	713.94	1717088	10000	10000	13.4
2	5/10/2011	713.93	1716285	9500	28000	13.4
3	5/11/2011	713.46	1678548	9000	28000	12.4
4	5/12/2011	712.98	1640136	8550	28000	11.5
5	5/13/2011	712.45	1600965	8465	28000	10.5
6	5/14/2011	711.92	1561794	8380	28000	9.5
7	5/15/2011	711.38	1521884	8296	28000	8.5
8	5/16/2011	710.83	1482359	8213	28000	7.5
9	5/17/2011	710.24	1442657	8131	21000	6.5
10	5/18/2011	709.85	1416413	8131	21000	5.9
11	5/19/2011	709.46	1390169	8131	21000	5.2
12	5/20/2011	709.07	1363925	8131	21000	4.6
13	5/21/2011	708.65	1337911	8131	14000	3.9
14	5/22/2011	708.45	1325737	8131	14000	3.6
15	5/23/2011	708.25	1313563	8131	21000	3.3
16	5/24/2011	707.82	1287388	8131	21000	2.7
17	5/25/2011	707.39	1261214	8131	21000	2.0
18	5/26/2011	706.96	1235201	8131	21000	1.4
19	5/27/2011	706.50	1209046	8131	21000	0.7
20	5/28/2011	706.04	1182891	8131	7000	0.1

<http://forecast.weather.gov/MapClick.php?lat=38.24249456800328&lon=-93.4002685546875&site=sgf&unit=0&lg=en&FcstType=text>

<http://forecast.weather.gov/MapClick.php?w0=t&w1=td&w2=hi&w3=sfcwind&w3u=1&w4=sky&w5=pop&w6=rh&w7=thunder&w8=rain&pqpfhr=6&AheadHour=0&FcstType=graphical&textField1=38.24249&textField2=-93.40027&site=sgf&unit=0&dd=0&bw=0&AheadDay.x=66&AheadDay.y=14>

[REDACTED]  
Water Management Section  
Kansas City District, Corps of Engineers

[REDACTED] work  
[REDACTED] cell  
[REDACTED] usace.army.mil

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE



[REDACTED] NWO

---

From: [REDACTED] NWD02  
Sent: Monday, May 09, 2011 2:25 PM  
To: [REDACTED] NWO; Farhat, Jody S NWD02  
Subject: RE: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED]  
We have 44,000 cfs scheduled for tomorrow, which is a 3,000 cfs increase. On the forecast we showed slowing the increases down after that, although we still had 46 for Wednesday, 48 on Thursday and 49 on Friday. We can definitely stay on any of those releases for an extra day or two if necessary.

Jody, any thoughts?

[REDACTED]  
-----Original Message-----  
From: [REDACTED] NWO  
Sent: Monday, May 09, 2011 2:02 PM  
To: Farhat, Jody S NWD02; [REDACTED] NWD02  
Subject: Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I see that we are going to 44,000 cfs daily average releases from Garrison tomorrow. During previous conversations, I was told that we'd likely "Take a pause" in increases once we got to the mid 40,000 cfs releases, in order to assess the impacts downstream. Is that still the plan?

[REDACTED]  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

---

**From:** [REDACTED] NWO  
**Sent:** Monday, May 09, 2011 2:02 PM  
**To:** Farhat, Jody S NWD02; [REDACTED] NWD02  
**Subject:** Garrison Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I see that we are going to 44,000 cfs daily average releases from Garrison tomorrow. During previous conversations, I was told that we'd likely "Take a pause" in increases once we got to the mid 40,000 cfs releases, in order to assess the impacts downstream. Is that still the plan?

[REDACTED]  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

From: [REDACTED] NWD02  
Sent: Monday, May 09, 2011 10:18 AM  
To: [REDACTED] NWD; Farhat, Jody S NWD02  
Cc: [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD; [REDACTED] NWD  
Subject: FW: Historic Flood 1927 vs. 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Fyi - I had not seen the statement about recent rainfall at 600% of average.

-----Original Message-----

From: [REDACTED] HQ02  
Sent: Sunday, May 08, 2011 1:45 PM  
To: Duane Stagg; Bob Fulton; [REDACTED] SWD; [REDACTED] NAD; [REDACTED]  
LRDOR; [REDACTED] SPD@SPK; [REDACTED] NWD02; [REDACTED] SAD; [REDACTED]  
[REDACTED] @ POD; [REDACTED] MVD; [REDACTED] HQ02; [REDACTED] HQ02  
Subject: FW: Historic Flood 1927 vs. 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Some interesting comparison.

[REDACTED]  
[REDACTED]  
HQ5, US Army Corps of Engineers  
[REDACTED] (Office)  
[REDACTED] (Cell)

-----Original Message-----

From: Stolzoff, Vanessa M CPT HQ02 On Behalf Of CE-UOC HQ02  
Sent: Sunday, May 08, 2011 11:58 AM  
To: DLL-Spring Flood 2011; [REDACTED] HQ02  
Subject: Historic Flood 1927 vs 2011 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

ALCON,

FYI.

V/R,  
Vanessa Stolzoff  
CPT, EN  
Operations Officer

-----  
Then (1927) and Now (2011) FLOODING

During the tragic Great Flood of 1927, more than 26,000 square miles of land--16 million acres--in seven states (IL, MO, KY, TN, AR, MS, LA) were inundated. At the high point of the flood, the river stretched from Vicksburg, Mississippi, to Monroe, Louisiana--a swath 80 miles wide. Throughout the devastating flood of 1927, up to 500 people lost their lives, with another 600,000 seeking shelter in Red Cross refugee camps. More than 41,000 buildings were destroyed. Rail lines were severed, east-west communications, postal service, and commerce was in shambles. (map attached)

During the current flood of 2011 -- the nation has over 4 million people protected by the comprehensive Mississippi River and Tributaries project and it is performing as designed. In most cases with the maximum use of its features. While projects and people are being tested as never before, we are using every flood control tool and MR&T resource to help locals protect threatened communities. These tools include the use of levees, flood walls, flood ways, designed overtopping of backwater sections/areas and intensive flood control reservoir-lake management (Rivers: Ohio, Upper-Lower Miss, Missouri, Ar, Tn, Red and others). (map attached)

Some people wonder how this can happen ... with over 600% of average rainfall in a two week period that happen to fall in the Watershed in just the wrong places ... it is simply the most water the nation has had in this watershed in History ...

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] NWO

---

**From:** [REDACTED] NWO  
**Sent:** Wednesday, May 11, 2011 10:51 AM  
**To:** Farhat, Jody S NWD02; Bertino, John J Jr NWO; [REDACTED] NWD02  
**Cc:** [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWO; Kelly, [REDACTED]  
NWO, [REDACTED] NWO, [REDACTED] NWO, [REDACTED] NWD02; [REDACTED] NWO  
K NWO  
**Subject:** Surveillance triggers Revised 5May12.xlsx  
**Attachments:** Surveillance triggers Revised 5May12.xlsx

Current surveillance triggers are attached. [REDACTED] was right, I misspoke on Garrison and forgot we revised the Daily trigger from 1852 to 1854

**OMAHA DISTRICT DAM SAFETY PROGRAM  
DAM SAFETY SURVEILLANCE POOL TRIGGERS**

5/6/2011

Project Symbol	Project	Conservation/Base Flood Control	Design Spillway Elevation (crest/top gate)	Surcharge	Design Dam Crest	Record Pool	Weekly	Daily	24-HR
BB	Big Bend Dam	1420.0	(1385/1423)	1433.6	1440.0	1422.1 (1991)	1422.0	1422.0	1423.0
FR	Fort Randall Dam	1350.0	(1346/1375)	1379.3	1395.0	1372.2 (1997)	1365.0	1370.0	1372.0
FP	Fort Peck Dam	2234.0	(2225/2250)	2256.1	2280.5	2252.0 (1975)	2246.0	2250.0	2252.0
GA	Garrison Dam	1837.5	(1825/1854)	1858.5	1875.0	1854.8 (1975)	1850.0	1854.0	1854.8
GP	Gavins Point Dam	1204.5	(1180/1210)	1221.4	1234.0	1210.7 (1960)	1210.0	1210.0	1210.7
OA	Oahe Dam	1607.5	(1596.5/1620)	1644.4	1660.0	1618.7 (1995)	1617.5	1618.7	1618.7
PS	Pipestem Dam	1442.5	(1496.3/NA)	1502.8	1507.5	1492.2 (2009)	1460.0	1475.0	1492.0

# United States Senate

WASHINGTON, DC 20510-2602

INTERNET:  
<http://baucus.senate.gov>

April 4, 2011

**RECEIVED**

MAY 02 2011

Office of the ASA (CW)  
Washington, DC

The Honorable [REDACTED]

United States Department of the Army  
108 Army Pentagon Room 3e446  
Washington, D.C. 20310-0108

Dear Assistant Secretary [REDACTED]

Once again, thank you for appearing before the Transportation and Infrastructure Subcommittee to the Environment and Public Works Committee to discuss on the US Army Corps of Engineers proposed 2012 budget. As a follow up to your appearance, I would like to submit questions for your consideration regarding a couple of specific projects that are very important to my state of Montana. The questions regard: projected flooding in Montana and the Corps' response; levee accreditation in floodplains, especially in light of recent FEMA map modernization; the Missouri River Authorized Purposes Study; the Intake Diversion Dam; and, the St. Mary Diversion and Conveyance Works.

## MONTANA FLOODING QUESTIONS:

1. Forecasts indicate Montana faces the likelihood of a high flood risk this Spring. The Milk River Basin has surpassed its' record snowfall amount with approximately 105 inches for the year. The current snow water equivalent maps are showing areas of 8 to 14" of snow water equivalent in the areas between Havre and Malta and areas of 1 to 6" of snow water equivalent between Malta and Wolf Point. Snow water equivalent is the amount of water in the current snowpack. The Corps has stated that given this data, there is a good chance Montana will possibly see record flooding this Spring.

Can you tell me what steps the Corps is taking to prepare for this flood risk?

2. Do you need additional resources to prevent the loss of life and property should these floods turn out as bad as anticipated?

## LEVEE ACCREDITATION QUESTIONS:

1. In 2008, the Army Corps changed its policy regarding levee certification and discontinued certifying federally-constructed, non-federally operated levees. This has occurred at the same time that FEMA has undertaken a flood map modernization program, resulting in hardship for small communities in my home state of Montana that can't afford third-party levee

accreditation. In many cases the Corps has built the levee, has inspected the levee for years, and now refuses to provide accreditation for the levee.

[REDACTED] in your testimony, you note the Corps is pursuing a \$50 million comprehensive levee safety initiative. How does it apply to small cash-strapped communities who suddenly find themselves in a floodplain for the first time and can't afford levee accreditation?

2. During the hearing, you stated you would review the Corps of Engineers' policy on levee accreditation, can you tell me what is the timeline for this review?

3. How soon can my constituents expect to receive a summary of your findings and an indication of the Corps' policy going forward?

4. What steps does the Corps take to ease the financial burden FEMA's map modernization places on small communities?

5. The Corps and FEMA need to work together on these levee certifications. I know that the Corps and FEMA leadership meet quarterly to coordinate policies. What have you learned from these meetings and what steps has the Corps taken in the past year to improve coordination with FEMA? For example, how does the Corps coordinate the Periodic Inspections it routinely conducts on levees with FEMA's map modernization program?

6. Is the Corps' application of this new policy not to conduct levee accreditation being applied uniformly?

#### MISSOURI RIVER AUTHORIZED PURPOSES STUDY

1. As you know, Congress appropriated \$25 million for the Missouri River Authorized Purposes Study to review the project purposes established by the Flood Control Act of 1944. The Study is supposed to analyze the eight authorized purposes in light of current needs to determine if changes to the existing purposes and existing Federal water resource infrastructure may be warranted.

To me, it would seem like a waste of money to do half a report when the scoping portion has been released in draft form just this month. Can I get your agreement that you will not support recent Missouri delegation efforts to zero-fund the Study?

#### INTAKE DIVERSION DAM QUESTIONS:

1. [REDACTED] in your testimony you mention "....\$73 million for ongoing work under the Missouri River Fish and Wildlife Recovery program to construction shall water habitat and undertake other activities to recover and protect Federally-listed species, such as the pallid sturgeon." Can you tell me how does that apply to the Intake Diversion Dam project in Montana?



2. The Corps put Phase 2 of the project on hold when the project's cost increased because it was determined that different, more expensive granite was needed for the riverbed ramp. Was this foreseeable that a more expensive material would ultimately be needed?

3. Is the Corps taking steps to prevent future cost overruns?

ST. MARY DIVERSION AND CONVEYANCE WORKS QUESTIONS:

1. ~~Secretary Deery~~ as you know, I managed to get a \$153 million authorization for the Corps to work with the Bureau of Reclamation on the St. Mary Diversion works, a project that diverts water from the Milk River to systems across northern Montana. Later, Senator Tester and I followed up with a \$500,000 appropriation to the Bureau of Reclamation to start the process.

Can you tell me what is being done on this? Can the Corps and the Bureau of Reclamation work together to undertake the cooperative agreement between the two agencies?

Thank you very much, in advance, for your consideration of these questions. The favor of a timely response would be very much appreciated. And, again, thank you for appearing before the Subcommittee.

Sincerely,

A handwritten signature in black ink, appearing to read "Max Baucus". The signature is fluid and cursive, with a long horizontal stroke at the end.

██████████ NWO

---

From: Farhat, Jody S NWD02  
Sent: Thursday, May 12, 2011 10:14 AM  
To: ██████████ NWO; ██████████ NWD02  
Subject: RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

██████████-██████████ and ██████████ are working on a best estimate so you'll have the latest numbers before the meeting. They're currently waiting on a NWD forecast for the Yellowstone River, I believe, and then they'll update our studies. I agree that your number is going higher, esp after that rain on the Yellowstone last weekend.

Jody

-----Original Message-----

From: ██████████ NWO  
Sent: Thursday, May 12, 2011 9:04 AM  
To: ██████████ NWD02  
Cc: Farhat, Jody S NWD02  
Subject: RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Any idea how much we're looking to increase? I'd really like to have an idea so I can discuss that with the State Water Commission and Emergency Management staff at our meeting this afternoon. It sounds like Todd Sando called the meeting because he believes we're going to need to go to higher releases than 49,000 cfs and he wants the county and cities to be prepared. I believe that's the purpose for our meeting this afternoon, so any information on where you think we'll end up would be beneficial.

-----Original Message-----

From: ██████████ NWD02  
Sent: Thursday, May 12, 2011 8:11 AM  
To: ██████████ NWO  
Cc: Farhat, Jody S NWD02  
Subject: RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

██████████  
I was just about to send you an email. We are tracking a lot of water on the Yellowstone right now due to the recent rain. The forecast for Sidney is around 80 kcfs, which means significant inflows into Garrison this weekend and early next week.

We'll probably run a preliminary monthly study early next week, but it will most likely increase the release rate from Garrison in the near future.

Mike

-----Original Message-----

From: ██████████ NWO  
Sent: Thursday, May 12, 2011 8:08 AM

To: [REDACTED] NWD02  
Cc: Farhat, Jody S NWD02  
Subject: RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
I see that Bismarck is now at 12.15 so expect that a 2,000 cfs increase is going to put us closer to a 12.4 foot stage. County Emergency Managers have folks nervous as they have opened up self serve sandbagging stations. The press is all over that and wanting to know what we're flooding? I have a call into the Burleigh County EM and will be meeting with the State folks this afternoon.

For the record, my gut feeling is that we're still under forecasting. Conditions in ND and Eastern Montana are extremely wet! Thus I expect we're going to see a much higher % of runoff from rain events than normal. Additionally, it's been very cool and cloudy with high humidity levels. We're seeing very limited drying and evaporation.

My 2 cents from ground level...

-----Original Message-----  
From: [REDACTED] NWD02  
Sent: Wednesday, May 11, 2011 11:11 AM  
To: [REDACTED] NWO  
Subject: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
Bismarck hasn't quite leveled off yet, but it looks like the stage will be near 12 ft. We are going to schedule 46 kcfs for tomorrow (up 2 kcfs at 0800). That should increase Bismarck about 0.25 ft. The remainder of the changes will probably be 1 kcfs changes - possibly every few days until we get to 49 kcfs. Based on the rain/snow over the last few days there's a good chance we may need to increase releases up higher than 49 kcfs. I don't have a number at this point but it may be 50 or 51 kcfs.

[REDACTED]  
Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED

**From:** Farhat, Jody S NWD02  
**Sent:** Thursday, May 12, 2011 10:40 AM  
**To:** 'Marshall White'  
**Subject:** FW: MRRIC Water Management Report (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Marshall,

Here are the high points of my report from the MRRIC meeting last week:

2011 is forecast to be the second wettest year on record for the Missouri River Basin. The current forecast calls for 44 MAF of runoff above Sioux City, Iowa. The record runoff was 49.0 MAF in 1997. Other high years were 1978 with 40.6 MAF and 2010 with 38.7 MAF.

Despite the fact all of last year's flood waters were evacuated from the reservoir system, we have already gained over 8.5 MAF of flood water due to the melt of the plains snowpack. To put that in perspective, at the peak last year we had 9.1 MAF of stored flood waters in the system.

The mountain snowpack is currently 135 to 140 percent of normal. It appears that the mountain snowpack may have peaked, but cool temperatures and coupled with additional snow could push those numbers even higher.

Fort Peck is 5 feet below the exclusive flood control zone and is forecast to peak 2 feet into exclusive. Releases will be increased over the coming week to 20,000 cfs. This is require use of the spillway.

Garrison is 3 feet below the exclusive flood control zone and is forecast to peak 2 feet into exclusive. Releases will be increased to 49,000 cfs over the coming week. Releases is excess of the powerplant capacity will be made though the flood tunnels. These high flows will result in a stage of approximately 12 feet in the Bismarck area.

Oahe is just below the base of exclusive and is forecast to remain near that level for the next couple months. The outlet tunnels may be used to pass excess releases if necessary.

Releases from Fort Randall and Gavins Point are forecast to be increased to 55,000 and 57,500 cfs, respectively over the coming week. The spillways at both projects are already in use.

With reservoir levels this high we expect to have very little flexibility to reduce releases for downstream flood control. When releases are reduced for flood control downstream of Gavins Point, that water backs up into Fort Randall and Oahe. We are attempting to preserve some flood storage in those two projects for use in the event of significant downstream floods.

Let me know if you have any questions.

Regards,  
Jody

Classification: UNCLASSIFIED

[REDACTED] NWO

---

**From:** Farhat, Jody S NWD02  
**Sent:** Thursday, May 12, 2011 4:30 PM  
**To:** [REDACTED] NWD; [REDACTED] NWD  
**Cc:** [REDACTED] NWD02  
**Subject:** FW: Surveillance triggers Revised 5May12.xlsx (UNCLASSIFIED)  
**Attachments:** Plate1SummaryEngineeringData-Aug2010.XLS; Plate2SummaryEngineeringData-Aug2010.XLS; Surveillance triggers Revised 5May12.xlsx

Classification: UNCLASSIFIED  
Caveats: NONE

Surya - attached are the surveillance triggers and the pertinent data sheets for the Missouri River Mainstem Reservoirs.

Let me know if you have any questions.

Jody

-----Original Message-----

**From:** [REDACTED] NWO  
**Sent:** Wednesday, May 11, 2011 10:51 AM  
**To:** Farhat, Jody S NWD02; Bertino, John J Jr NWO; [REDACTED] NWD02  
**Cc:** [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWO  
**Subject:** Surveillance triggers Revised 5May12.xlsx

Current surveillance triggers are attached. [REDACTED] was right, I misspoke on Garrison and forgot we revised the Daily trigger from 1852 to 1854

Classification: UNCLASSIFIED  
Caveats: NONE

Summary of Engineering Data -- Missouri River Mainstem System							
Item No.	Subject	Fort Peck Dam - Fort Peck Lake		Garrison Dam - Lake Sakakawea		Oahe Dam - Lake Oahe	
1	Location of Dam	Near Glasgow, Montana		Near Garrison, ND		Near Pierre, SD	
2	River Mile - 1960 Mileage	Mile 1771.5		Mile 1389.9		Mile 1072.3	
3	Total & incremental drainage areas in square miles	57,500		181,400 (2) 123,900		243,490 (1) 62,090	
4	Approximate length of full reservoir (in valley miles)	134, ending near Zortman, MT		178, ending near Trenton, ND		231, ending near Bismarck, ND	
5	Shoreline in miles (3)	1520 (elevation 2234)		1340 (elevation 1837.5)		2250 (elevation 1607.5)	
6	Average total & incremental inflow in cfs	10,200		25,600 15,400		28,900 3,300	
7	Max. discharge of record near damsite in cfs	137,000 (June 1953)		348,000 (April 1952)		440,000 (April 1952)	
8	Construction started - calendar yr.	1933		1946		1948	
9	In operation (4) calendar yr.	1940		1955		1962	
<u>Dam and Embankment</u>							
10	Top of dam, elevation in feet msl	2280.5		1875		1660	
11	Length of dam in feet	21,026 (excluding spillway)		11,300 (including spillway)		9,300 (excluding spillway)	
12	Damming height in feet (5)	220		180		200	
13	Maximum height in feet (5)	250.5		210		245	
14	Max. base width, total & w/o berms in feet	3500, 2700		3400, 2050		3500, 1500	
15	Abutment formations ( under dam & embankment)	Bearpaw shale and glacial fill		Fort Union clay shale		Pierre shale	
16	Type of fill	Hydraulic & rolled earth fill		Rolled earth filled		Rolled earth fill & shale berms	
17	Fill quantity, cubic yards	125,628,000		66,500,000		55,000,000 & 37,000,000	
18	Volume of concrete, cubic yards	1,200,000		1,500,000		1,045,000	
19	Date of closure	24 June 1937		15 April 1953		3 August 1958	
<u>Spillway Data</u>							
20	Location	Right bank - remote		Left bank - adjacent		Right bank - remote	
21	Crest elevation in feet msl	2225		1825		1596.5	
22	Width (including piers) in feet	820 gated		1336 gated		456 gated	
23	No., size and type of gates	16 - 40' x 25' vertical lift gates		28 - 40' x 29' Tainter		8 - 50' x 23.5' Tainter	
24	Design discharge capacity, cfs	275,000 at elev 2253.3		827,000 at elev 1858.5		304,000 at elev 1644.4	
25	Discharge capacity at maximum operating pool in cfs	230,000		660,000		80,000	
<u>Reservoir Data (6)</u>							
26	Max. operating pool elev. & area	2250 msl	241,000 acres	1854 msl	380,000 acres	1620 msl	374,000 acres
27	Max. normal op. pool elev. & area	2246 msl	234,000 acres	1850 msl	364,000 acres	1617 msl	360,000 acres
28	Base flood control elev & area	2234 msl	210,000 acres	1837.5 msl	307,000 acres	1607.5 msl	312,000 acres
29	Min. operating pool elev. & area	2160 msl	89,000 acres	1775 msl	128,000 acres	1540 msl	117,000 acres
<u>Storage allocation &amp; capacity</u>							
30	Exclusive flood control	2250-2246	971,000 a.f.	1854-1850	1,489,000 a.f.	1620-1617	1,102,000 a.f.
31	Flood control & multiple use	2246-2234	2,704,000 a.f.	1850-1837.5	4,222,000 a.f.	1617-1607.5	3,201,000 a.f.
32	Carryover multiple use	2234-2160	10,700,000 a.f.	1837.5-1775	13,130,000 a.f.	1607.5-1540	13,461,000 a.f.
33	Permanent	2160-2030	4,088,000 a.f.	1775-1673	4,980,000 a.f.	1540-1415	5,373,000 a.f.
34	Gross	2250-2030	18,463,000 a.f.	1854-1673	23,821,000 a.f.	1620-1415	23,137,000 a.f.
35	Reservoir filling initiated	November 1937		December 1953		August 1958	
36	Initially reached min. operating pool	27 May 1942		7 August 1955		3 April 1962	
37	Estimated annual sediment inflow	17,700 a.f.	1030 yrs.	25,900 a.f.	920 yrs.	19,800 a.f.	1170 yrs.
<u>Outlet Works Data</u>							
38	Location	Right bank		Right Bank		Right Bank	
39	Number and size of conduits	2 - 24' 8" diameter (nos. 3 & 4)		1 - 26' dia. and 2 - 22' dia.		6 - 19.75' dia. upstream, 18.25' dia. downstream	
40	Length of conduits in feet (8)	No. 3 - 6,615, No. 4 - 7,240		1529		3496 to 3659	
41	No., size, and type of service gates	1 - 28' dia. cylindrical gate 6 ports, 7.6' x 8.5' high (net opening) in each control shaft		1 - 18' x 24.5' Tainter gate per conduit for fine regulation		1 - 13' x 22' per conduit, vertical lift, 4 cable suspension and 2 hydraulic suspension (fine regulation)	
42	Entrance invert elevation (msl)	2095		1672		1425	
43	Avg. discharge capacity per conduit & total	Elev. 2250 22,500 cfs - 45,000 cfs		Elev. 1854 30,400 cfs - 98,000 cfs		Elev. 1620 18,500 cfs - 111,000 cfs	
44	Present tailwater elevation (ft msl)	2032-2036 5,000 - 35,000 cfs		1670-1680 15,000- 60,000 cfs		1423-1428 20,000-55,000 cfs	
<u>Power Facilities and Data</u>							
45	Avg. gross head available in feet (14)	194		161		174	
46	Number and size of conduits	No. 1-24'8" dia., No. 2-22'4" dia.		5 - 29' dia., 25' penstocks		7 - 24' dia., imbedded penstocks	
47	Length of conduits in feet (8)	No. 1 - 5,653, No. 2 - 6,355		1829		From 3,280 to 4,005	
48	Surge tanks	PH#1: 3-40' dia., PH#2: 2-65' dia.		65' dia. - 2 per penstock		70' dia., 2 per penstock	
49	No., type and speed of turbines	5 Francis, PH#1-2: 128.5 rpm, 1-164 rpm , PH#2-2: 128.6 rpm		5 Francis, 90 rpm		7 Francis, 100 rpm	
50	Discharge cap. at rated head in cfs	PH#1, units 1&3 170', 2-140' 8,800 cfs, PH#2-4&5 170'-7,200 cfs		150' 41,000 cfs		185' 54,000 cfs	
51	Generator nameplate rating in kW	1&3: 43,500; 2: 18,250; 4&5: 40,000		3 - 121,600, 2 - 109,250		112,290	
52	Plant capacity in kW	185,250		583,300		786,030	
53	Dependable capacity in kW (9)	181,000		388,000		534,000	
54	Avg. annual energy, million kWh (12)	1,052		2,250		2,621	
55	Initial generation, first and last unit	July 1943 - June 1961		January 1956 - October 1960		April 1962 - June 1963	
56	Estimated cost September 1999 completed project (13)	\$158,428,000		\$305,274,000		\$346,521,000	

**Plate 2. Summary table contains the engineering data for the Missouri River Mainstem system.**

# Summary of Engineering Data -- Missouri River Mainstem System

Big Bend Dam - Lake Sharpe	Fort Randall Dam - Lake Francis Case	Gavins Point Dam - Lewis & Clark Lake	Total	Item No.	Remarks
21 miles upstream Chamberlain, SD Mile 987.4 249,330 (1) 5,840	Near Lake Andes, SD Mile 880.0 263,480 (1) 14,150	Near Yankton, SD Mile 811.1 279,480 (1) 16,000		1 2 3	(1) Includes 4,280 square miles of non-contributing areas.
80, ending near Pierre, SD	107, ending at Big Bend Dam	25, ending near Niobrara, NE	755 miles	4	(2) Includes 1,350 square miles of non-contributing areas.
200 (elevation 1420) 28,900	540 (elevation 1350) 30,000 1,100	90 (elevation 1204.5) 32,000 2,000	5,940 miles	5 6	(3) With pool at base of flood control.
440,000 (April 1952)	447,000 (April 1952)	480,000 (April 1952)		7	(4) Storage first available for regulation of flows.
1959	1946	1952		8	(5) Damming height is height from low water to maximum operating pool. Maximum height is from average streambed to top of dam.
1964	1953	1955		9	(6) Based on latest available storage data.
1440 10,570 (including spillway) 78 95 1200, 700	1395 10,700 (including spillway) 140 165 4300, 1250	1234 8,700 (including spillway) 45 74 850, 450	71,596 863 feet	10 11 12 13 14	(7) River regulation is attained by flows over low-crested spillway and through turbines.
Pierre shale & Niobrara chalk	Niobrara chalk	Niobrara chalk & Carlile shale		15	(8) Length from upstream face of outlet or to spiral case.
Rolled earth, shale, chalk fill 17,000,000 540,000 24 July 1963	Rolled earth fill & chalk berms 28,000,000 & 22,000,000 961,000 20 July 1952	Rolled earth & chalk fill 7,000,000 308,000 31 July 1955	358,128,000 cu. yds 5,554,000 cu. yds.	16 17 18 19	(9) Based on 8th year (1961) of drought drawdown (From study 8-83-1985).
Left bank - adjacent 1385 376 gated 8 - 40' x 38' Tainter 390,000 at elev 1433.6 270,000	Left bank - adjacent 1346 1000 gated 21 - 40' x 29' Tainter 620,000 at elev 1379.3 508,000	Right bank - adjacent 1180 664 gated 14 - 40' x 30' Tainter 584,000 at elev 1221.4 345,000		20 21 22 23 24 25	(10) Affected by level of Lake Francis case. Applicable to pool at elevation 1350.
1423 msl 61,000 acres 1422 msl 60,000 acres 1420 msl 57,000 acres 1415 msl 51,000 acres	1375 msl 102,000 acres 1365 msl 95,000 acres 1350 msl 77,000 acres 1320 msl 38,000 acres	1210 msl 30,000 acres 1208 msl 27,000 acres 1204.5 msl 23,000 acres 1204.5 msl 23,000 acres	1,188,000 acres 1,140,000 acres 986,000 acres 446,000 acres	26 27 28 29	(11) Spillway crest.
1423-1422 60,000 a.f. 1422-1420 117,000 a.f.	1375-1365 985,000 a.f. 1365-1350 1,309,000 a.f. 1350-1320 1,607,000 a.f.	1210-1208 57,000 a.f. 1208-1204.5 86,000 a.f.	4,664,000 a.f. 11,639,000 a.f. 38,898,000 a.f.	30 31 32	(12) 1967-2009 Average
1420-1345 1,621,000 a.f. 1423-1345 1,798,000 a.f. November 1963 25 March 1964 5,300 a.f. 430 yrs.	1320-1240 1,517,000 a.f. 1375-1240 5,418,000 a.f. January 1953 24 November 1953 18,400 a.f. 250 yrs.	1204.5-1160 307,000 a.f. 1210-1160 450,000 a.f. August 1955 22 December 1955 2,600 a.f. 180 yrs.	17,886,000 a.f. 73,087,000 a.f. 89,700 a.f.	33 34 35 36 37	(13) Source: Annual Report on Civil Works Activities of the Corps of Engineers. Extract Report Fiscal Year 1999.
None (7)	Left Bank 4 - 22' diameter 1013 2 - 11' x 23' per conduit, vertical lift, cable suspension	None (7)		38 39 40 41	(14) Based on Study 8-83-1985
1385 (11)	1229 Elev 1375	1180 (11)		42 43	
1351-1355(10) 25,000-100,000 cfs	32,000 cfs - 128,000 cfs 1228-1239 5,000-60,000 cfs	1155-1163 15,000-60,000 cfs		44	
70 None: direct intake None 8 Fixed blade, 81.8 rpm 67' 103,000 cfs	117 8 - 28' dia., 22' penstocks 1,074 59' dia, 2 per alternate penstock 8 Francis, 85.7 rpm 112' 44,500 cfs	48 None: direct intake None 3 Kaplan, 75 rpm 48' 36,000 cfs	764 feet 55,083 36 units	45 46 47 48 49 50	
3 - 67,276, 5 - 58,500 494,320 497,000 969 October 1964 - July 1966	40,000 320,000 293,000 1,727 March 1954 - January 1956	44,100 132,300 74,000 727 September 1956 - January 1957	2,501,200 kw 1,967,000 kw 9,345 million kWh July 1943 - July 1966	51 52 53 54 55	Corps of Engineers, U.S. Army Compiled by Northwestern Division
\$107,498,000	\$199,066,000	\$49,617,000	\$1,166,404,000	56	Missouri River Region August 2010

**OMAHA DISTRICT DAM SAFETY PROGRAM  
DAM SAFETY SURVEILLANCE POOL TRIGGERS**

5/6/2011

Project Symbol	Project	Conservation/Base Flood Control	Design Spillway Elevation (crest/top gate)	Surcharge	Design Dam Crest	Record Pool	Weekly	Daily	24-HR
BB	Big Bend Dam	1420.0	(1385/1423)	1433.6	1440.0	1422.1 (1991)	1422.0	1422.0	1423.0
FR	Fort Randall Dam	1350.0	(1346/1375)	1379.3	1395.0	1372.2 (1997)	1365.0	1370.0	1372.0
FP	Fort Peck Dam	2234.0	(2225/2250)	2256.1	2280.5	2252.0 (1975)	2246.0	2250.0	2252.0
GA	Garrison Dam	1837.5	(1825/1854)	1858.5	1875.0	1854.8 (1975)	1850.0	1854.0	1854.8
GP	Gavins Point Dam	1204.5	(1180/1210)	1221.4	1234.0	1210.7 (1960)	1210.0	1210.0	1210.7
OA	Oahe Dam	1607.5	(1596.5/1620)	1644.4	1660.0	1618.7 (1995)	1617.5	1618.7	1618.7
PS	Pipestem Dam	1442.5	(1496.3/NA)	1502.8	1507.5	1492.2 (2009)	1460.0	1475.0	1492.0



[REDACTED] NWO

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From: [REDACTED] NWO  
Sent: Thursday, May 12, 2011 10:28 PM  
To: Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO  
Subject: Fw: Media Advisory: Plan and prepare for an increase in stage on the Missouri River

All,  
Just a "heads up" that this afternoon's planning meeting that the state held, regarding Missouri River flows, turned into a fiasco for them.

Their original intent was to host a small group of State and County folks to discuss potential Missouri River releases and begin planning accordingly. The media was excluded from the meeting, as well as some Congressional delegates. The state was accused of violating open meeting laws and it went south from there...

I stayed to assist the state with a follow-up meeting with the media. I have also made contact with some key stake holders and congressional rep's. This issue is significant to the area, but is being blown out of proportion due to the way it was handled. We can minimize impacts to USACE but I will need some assistance. We can, discuss further in the morning. This is just a "heads up" at this point. I have been in contact with Jody but we need to ensure we're all on the same page. We need to discuss the path forward tomorrow morning...

[REDACTED]  
-----  
Message sent via my BlackBerry Wireless Device

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From: Fong, Cecily S. <cfong@nd.gov>  
To: [REDACTED] NWO  
Sent: Thu May 12 16:51:43 2011  
Subject: Media Advisory: Plan and prepare for an increase in stage on the Missouri River

This just went out.

Media Advisory

For Immediate Release

May 12, 2011

Contact: Jody Farhat, Chief of Missouri River Basin Water Management Division, 402-996-3840

Plan and prepare for an increase in stage on the Missouri River

Bismarck, ND - Local, state, and federal officials gathered today to plan and prepare for increased water releases from Garrison Dam. The US Army Corps of Engineers will be increasing the releases to 55,000 cfs, which will result in an estimated two feet rise in the level of the Missouri River. The river will level off at about 14 feet. The increase will occur incrementally over the next week. The flows should reach the forecasted stage by next weekend. Additional adjustments may be needed if circumstances change.

People who think they may be impacted by the increased river stage should contact their county or city emergency managers.

For Morton County, contact Tammy Lapp-Harris at 701-667-3307.

For the City of Bismarck, contact Gary Stockert at 701-222-6727.

For Burleigh County, contact Mary Senger at 701-222-6727.

# # #

Cecily Fong  
Public Information Officer  
ND Department of Emergency Services  
Office: 701.328.8154  
Cell: 701.391.8158  
[cfong@nd.gov](mailto:cfong@nd.gov) <<mailto:cfong@nd.gov>>

Follow us on Facebook - [www.facebook.com/NDDDES](http://www.facebook.com/NDDDES)

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Description: DES-Logo

[REDACTED] NWO

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**From:** [REDACTED] NWO  
**Sent:** Thursday, May 12, 2011 10:06 PM  
**To:** Farhat, Jody S NWD02  
**Subject:** Fw: Media Advisory: Plan and prepare for an increase in stage on the Missouri River

Jody,  
Press release is attached.

[REDACTED]  
-----  
Message sent via my BlackBerry Wireless Device

---

**From:** Fong, Cecily S. <cfong@nd.gov>  
**To:** [REDACTED] NWO  
**Sent:** Thu May 12 16:51:43 2011  
**Subject:** Media Advisory: Plan and prepare for an increase in stage on the Missouri River

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Media Advisory

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May 12, 2011

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# # #

Cecily Fong  
Public Information Officer  
ND Department of Emergency Services  
Office: 701.328.8154  
Cell: 701.391.8158  
[cfong@nd.gov](mailto:cfong@nd.gov) <<mailto:cfong@nd.gov>>

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Description: DES-Logo

**[REDACTED] NWO**

---

**From:** [REDACTED] NWD02  
**Sent:** Thursday, May 12, 2011 4:04 PM  
**To:** [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWD02  
**Subject:** Fort Peck spillway photo (UNCLASSIFIED)  
**Attachments:** FP\_Spillway\_5\_10\_11.jpg

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] per your request. Here is a photo from 10 May, with a release of 10,000 cfs.

[REDACTED]

Classification: UNCLASSIFIED  
Caveats: NONE





US Army Corps  
of Engineers  
Omaha District

# U.S. Army Corps of Engineers, Omaha District

## Missouri River Basin

### Mainstem and Tributary Reservoir Bulletin

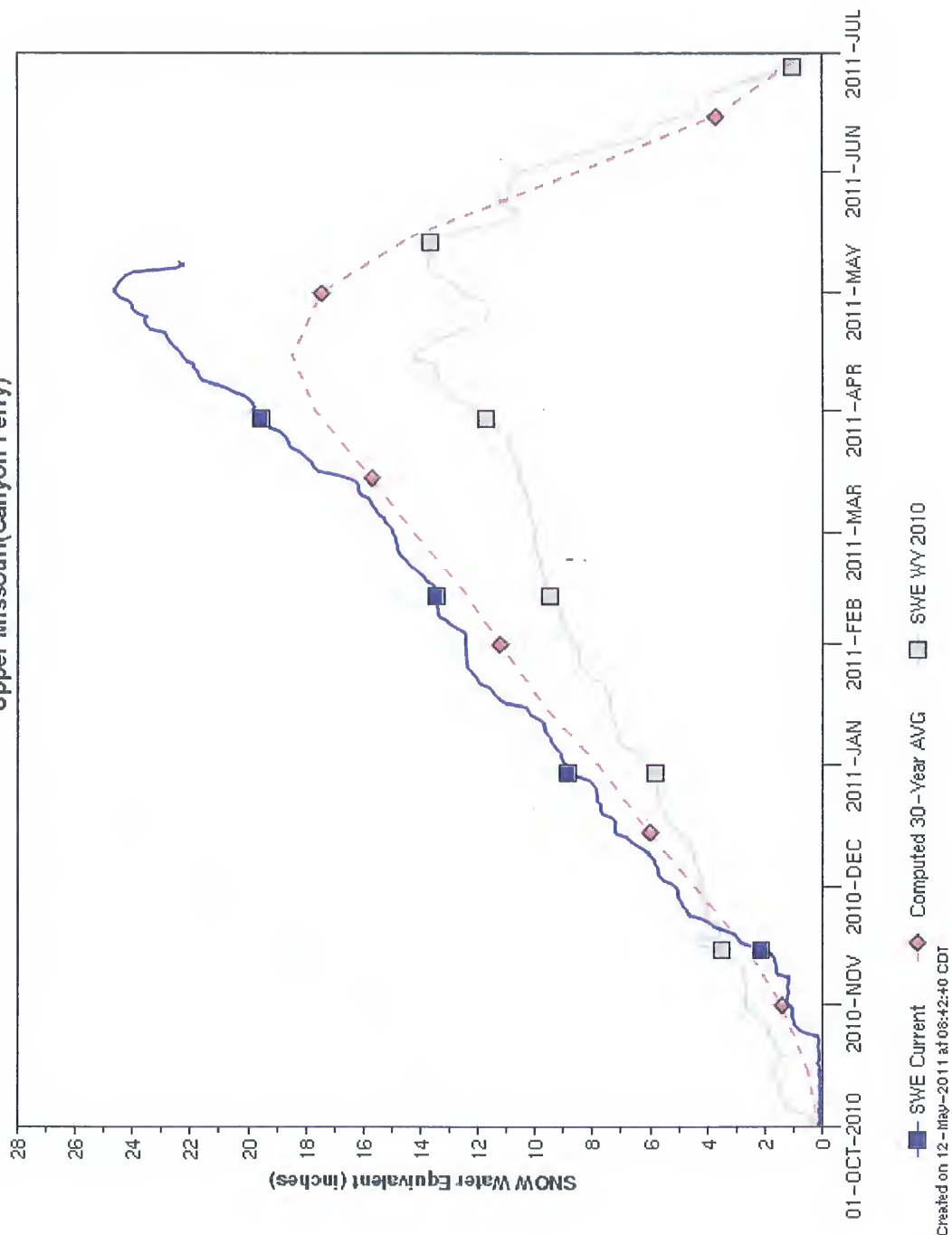
Project Data Date/Time: 05/12/11 12:00 AM

Bulletin Updated: 5/12/11 1:15 PM

Project	Project Information				Current Data					Occupied Storage		
	Elevations (ft msl)		Storage		Elevation (ft msl)	Dly Elev. Change	Storage (ac-ft)	Inflow (dsf)	Release (dsf)	MP (%)	FC (ac-ft)	FC (%)
	MP	FC	MP	FC								
MRR - Missouri River Mainstem Projects												
*Please note Mainstem and USBR data is calculated manually and will populate before 12:00 p.m.												
Fort Peck	2234.0	2250.0	14,995,684	18,687,731	2241.81	0.16	16,509,000	40,000	20,100	100.0	1,513,316	41.0
Garrison	1837.5	1854.0	18,109,625	23,820,730	1848.51	0.03	21,787,000	60,000	44,400	100.0	3,677,375	64.4
Oahe	1607.5	1620.0	18,834,035	23,136,960	1616.82	0.08	21,959,000	67,000	48,600	100.0	3,124,965	72.6
Big Bend	1420.0	1423.0	1,621,484	1,798,614	1420.06	-0.03	1,630,000	44,000	43,200	100.0	8,516	4.8
Fort Randall	1350.0	1375.0	3,124,368	5,418,186	1356.07	0.00	3,617,000	52,000	54,200	100.0	492,632	21.5
Gavins Point	1204.5	1210.0	320,971	469,928	1205.39	-0.11	329,000	53,000	54,000	100.0	8,029	5.4
System Totals							65,831,000					
NWO - USBR Section 7 Projects												
Tiber	2993.0	3012.5	925,649	1,328,723	2984.06	0.06	777,558	2,282	1,911	84.0	0	0.0
Clark Canyon	5546.1	5560.4	174,367	253,442	5544.54	0.08	166,332	529	351	95.4	0	0.0
Canyon Ferry	3797.0	3800.0	1,891,888	1,992,977	3778.92	-0.04	1,327,956	10,177	10,600	70.2	0	0.0
Boysen	4725.0	4732.2	741,594	892,226	4711.38	-0.22	511,862	606	2,408	69.0	0	0.0
Buffalo Bill	5393.5	5393.5	646,565	646,565	5348.50	-0.25	328,416	1,826	2,568	50.8	-	-
Yellowtail	3640.0	3657.0	1,070,000	1,328,000	3607.38	0.57	749,145	7,643	6,060	70.0	0	0.0
Jamestown	1429.8	1454.0	31,510	221,000	1450.82	0.08	180,824	1,720	1,600	100.0	149,314	78.8
Heart Butte	2064.4	2094.5	67,000	214,000	2064.69	-0.21	67,743	308	660	100.0	743	0.5
Keyhole	4099.3	4111.5	194,000	334,000	4093.53	0.05	139,886	189	0	72.1	0	0.0
Pactola	4580.2	4621.5	56,000	99,000	4579.44	0.09	55,301	107	68	98.8	0	0.0
Shadehill	2271.9	2302.0	120,000	350,000	2271.93	-0.06	119,774	370	547	99.8	0	0.0
Glendo	4635.0	4653.0	518,000	790,000	4627.88	0.12	436,128	7,237	6,482	84.2	0	0.0
NWO - USACE Tributary Projects												
Bowman-Haley	2754.8	2777.0	18,765	91,482	2755.39	-0.06	19,807	47	86	100.0	1,042	1.4
Pipestem	1442.5	1496.3	8,944	142,107	1485.99	0.09	100,095	656	204	100.0	91,151	68.5
Chatfield	5432.0	5500.0	27,428	234,207	5430.88	0.17	25,843	37	0	94.2	0	0.0
Cherry Creek	5550.0	5598.0	12,805	133,134	5548.63	0.17	11,660	34	16	91.1	0	0.0
Bear Creek	5558.0	5635.5	1,882	30,586	5558.26	0.62	1,909	18	11	100.0	27	0.1
Papio #11	1121.0	1142.0	3,054	16,907	1121.31	0.13	3,175	26	0	100.0	121	0.9
Papio #16	1104.0	1121.0	1,211	4,782	1104.30	0.28	1,249	18	1	100.0	38	1.1
Papio #18	1110.0	1128.2	2,916	10,512	1092.94	1.11	308	33	0	10.6	0	0.0
Papio #20	1095.8	1113.1	2,536	8,611	1096.17	0.24	2,586	12	0	100.0	50	0.8
Cottonwood	3875.0	3936.0	655	8,385	ORIFICE LINE OUT OF WATER							
Cold Brook	3585.0	3651.4	520	7,200	3581.68	0.07	406	1	0	78.0	0	0.0
Lake Audubon	1847.0	1847.0	323,690	323,690	1846.81	0.41	INFLOW AND OUTFLOW NOT CALCULATED					
Lake Pocasse	1617.0	1617.0	11,000	11,000	POOL ELEVATION READ MONTHLY BY PROJECT OFFICE							
Salt Creek #02	1335.0	1350.0	1,100	4,957	1332.78	-0.01	771	0	0	70.1	0	0.0
Salt Creek #04	1307.4	1322.5	2,531	9,660	1305.75	0.03	2,048	4	0	80.9	0	0.0
Salt Creek #08	1287.8	1302.0	1,780	8,375	1287.93	-0.01	2,103	9	11	100.0	323	4.9
Salt Creek #09	1271.1	1285.0	1,451	5,864	1271.21	0.05	1,472	5	0	100.0	21	0.5
Salt Creek #10	1244.9	1262.0	1,629	7,468	1244.72	0.03	1,592	4	0	97.8	0	0.0
Salt Creek #12	1232.9	1252.0	1,808	9,415	1233.09	0.04	1,848	5	0	100.0	40	0.5
Salt Creek #13	1341.0	1355.0	2,161	7,182	1340.94	0.05	2,146	6	0	99.3	0	0.0
Salt Creek #14	1244.3	1263.5	7,500	27,597	1244.43	0.04	7,592	15	0	100.0	92	0.5
Salt Creek #17	1242.4	1266.0	783	6,628	1242.49	0.03	819	2	0	100.0	36	0.6
Salt Creek #18	1284.0	1311.0	25,088	96,759	1284.22	0.03	25,492	36	7	100.0	404	0.6

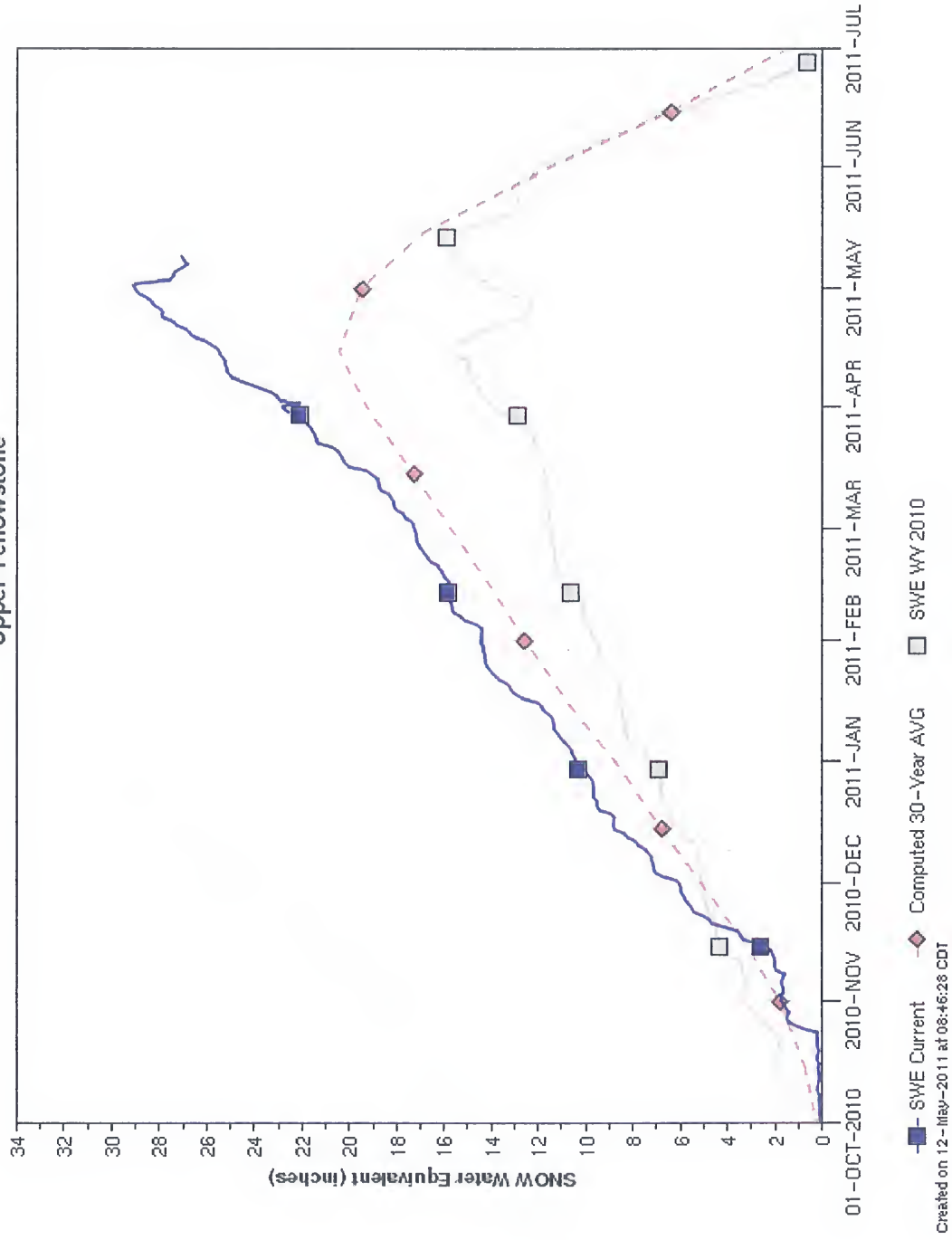


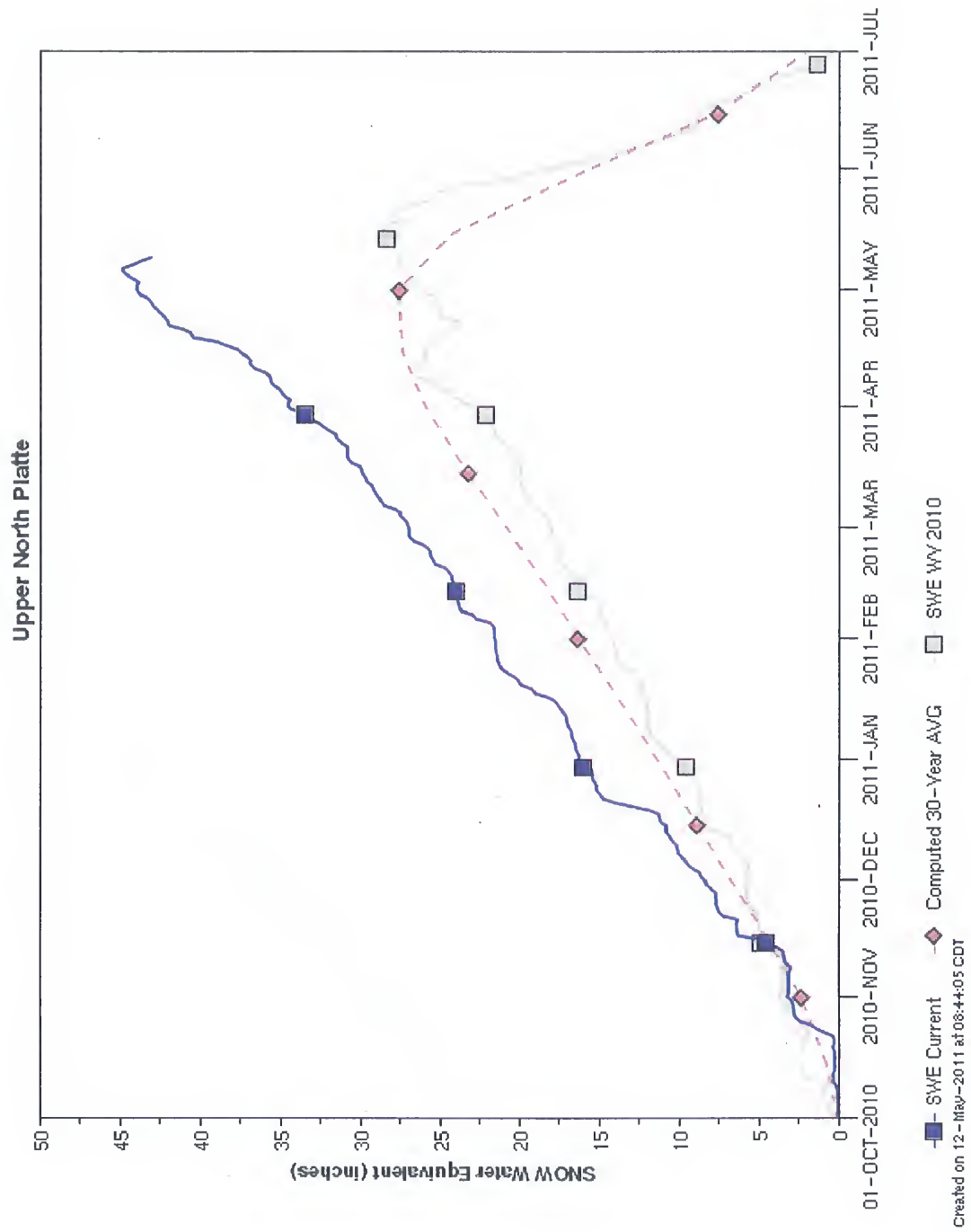
# Upper Missouri(Canyon Ferry)



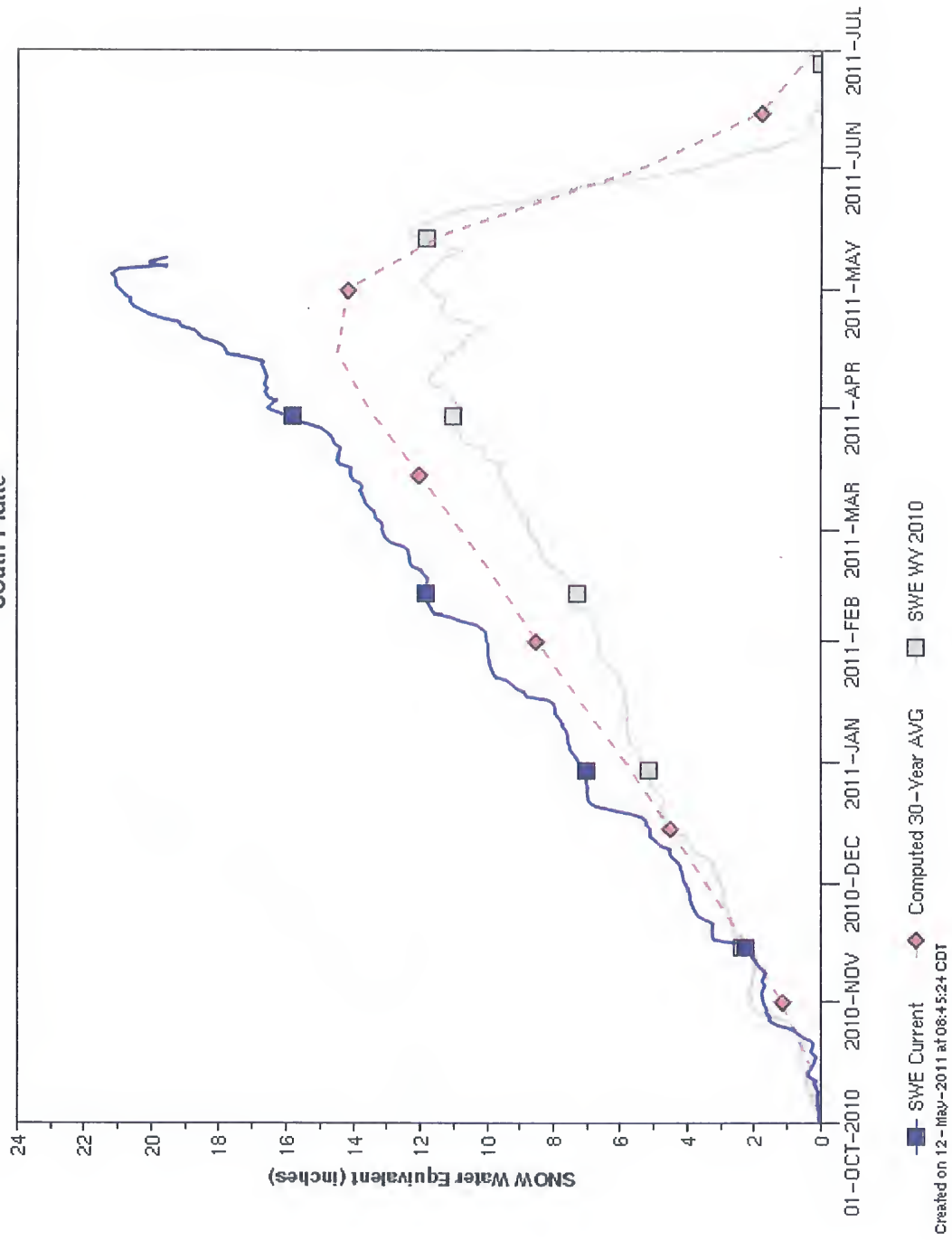


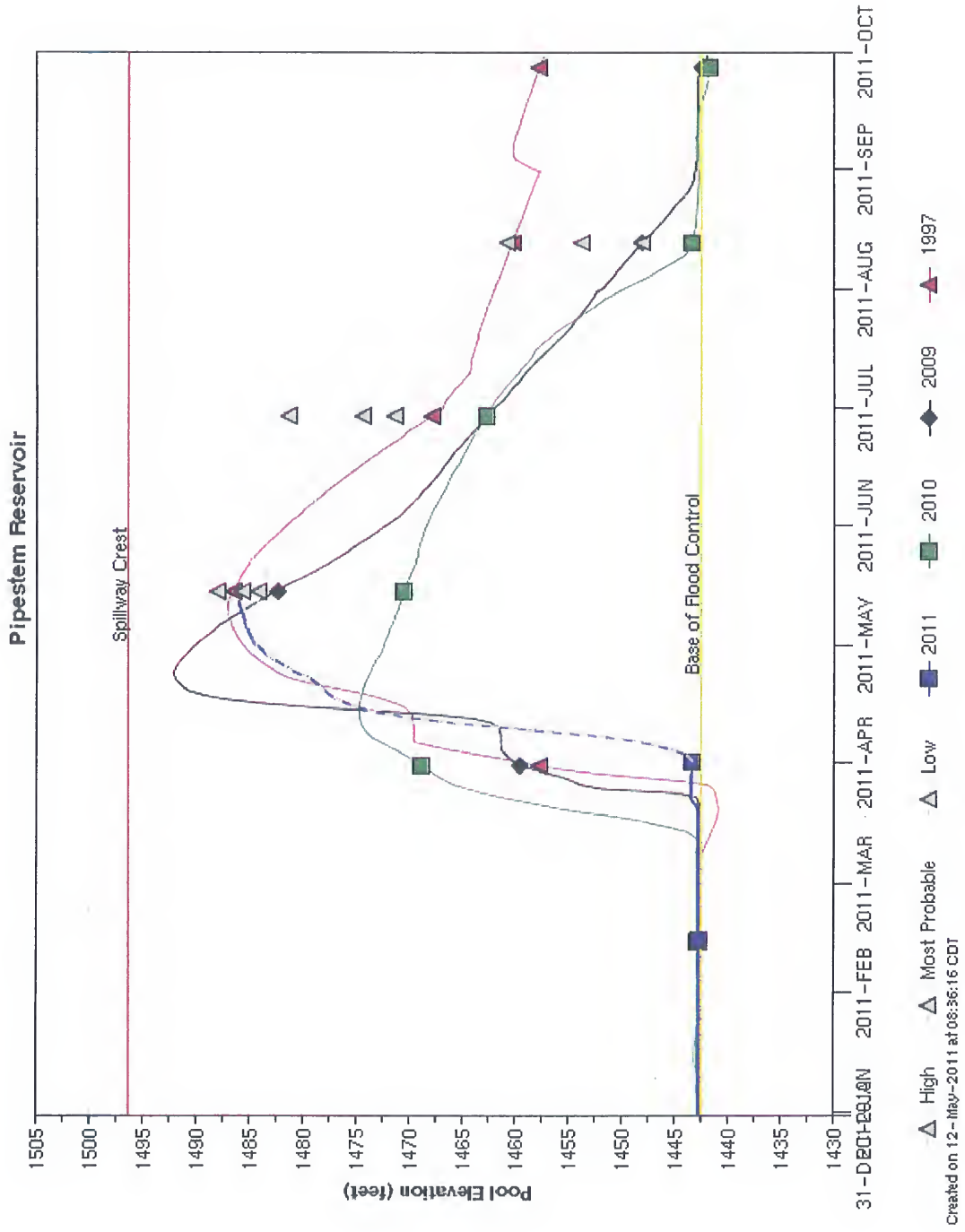
# Upper Yellowstone

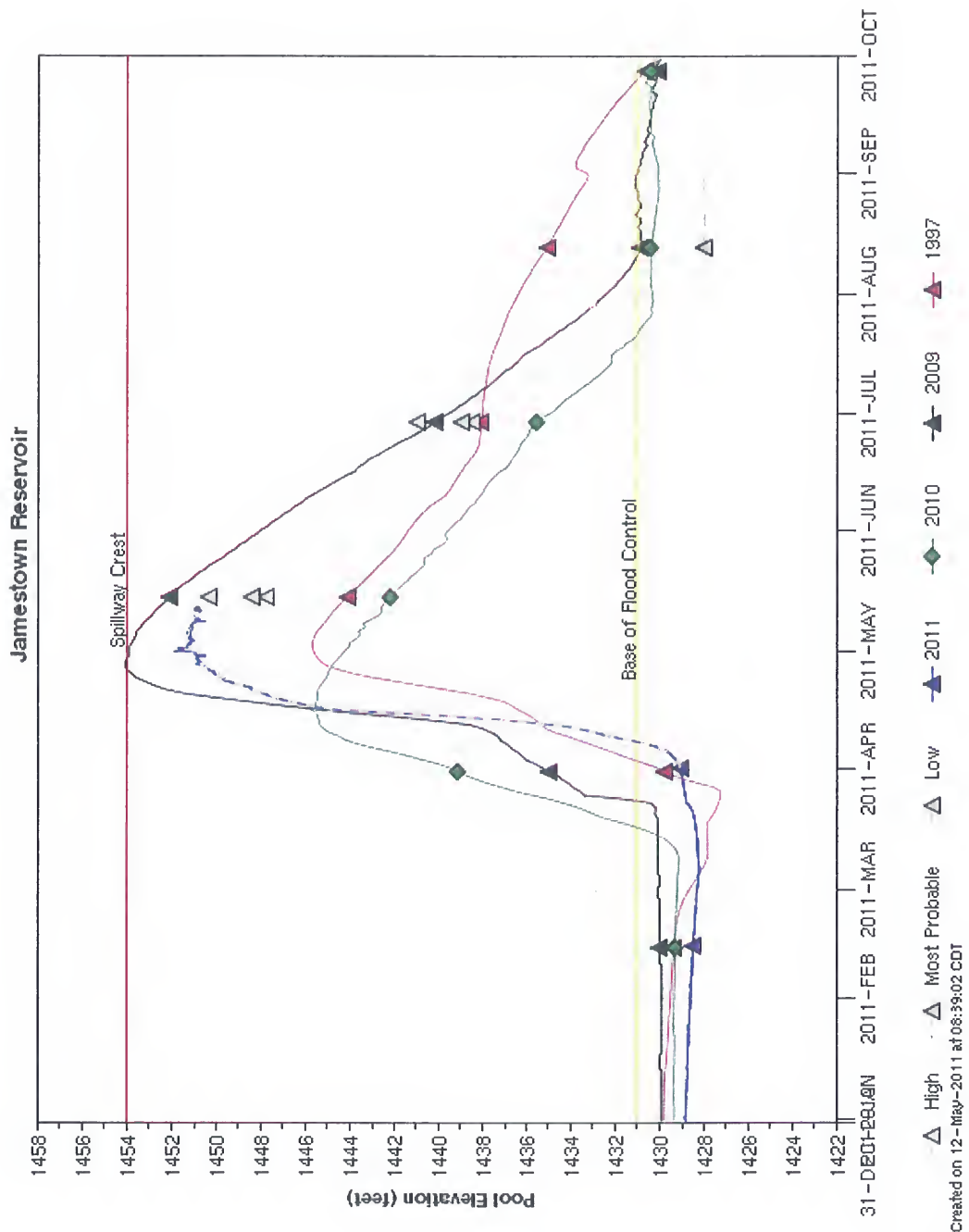




# South Platte







[REDACTED] NWO

**From:** [REDACTED] NWO  
**Sent:** Thursday, May 12, 2011 2:25 PM  
**To:** [REDACTED] HQ02@NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] M  
NWD02; Bertino, John J Jr NWO; Blechinger, Erik T NWO; [REDACTED] NWO; [REDACTED]  
[REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD02; DLL-CENWO-ED-H;  
Farhat, Jody S NWD02; Farmer, Monique L NWO; [REDACTED] NWO; [REDACTED]  
[REDACTED] NWD02; [REDACTED] NWO; Jordano, James J LTC NWO;  
[REDACTED] D NWD02; [REDACTED] NWO; [REDACTED] NWO; [REDACTED]  
NWO; [REDACTED] NWO; Oldham, Margaret NWO; [REDACTED] NWO; Quinn,  
Kevin R NWO; [REDACTED] NWO; Ruch, Robert J COL NWO; [REDACTED] NWO;  
[REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWO; [REDACTED]  
NWD02; [REDACTED] J NWO; [REDACTED] NWO; Thomas, Kimberly S NWO;  
[REDACTED] NWO; Wingert, Kevin M NWO  
**Subject:** Omaha District Summary of Tributary Reservoir Regulation Activities 5.12.11  
(UNCLASSIFIED)  
**Attachments:** 5.12.11 TribResSumm.pdf; dailybull 5.12.11.pdf; Upper Missouri Snow 5.12.11.pdf; Upper  
Yellowstone Snow 5.12.11.pdf; Upper North Platte Snow 5.12.11.pdf; South Platte Snow  
5.12.11.pdf; Pipestem Pool Plot 5.12.11.pdf; Jamestown Pool Plot 5.12.11.pdf

Classification: UNCLASSIFIED  
Caveats: NONE

Mountain snowpack on May 12, 2011 is 130% of the 30-year peak historical average. The Upper Missouri is 126%, the Upper Yellowstone is 135%, the Upper North Platte is 155% and the South Platte Basin is 140% of the 30-year peak historical average.

Pipestem Reservoir is at elevation 1485.9 feet msl with 68 percent of the flood control storage occupied. Current releases are 200 cfs and inflows are near 300 cfs. The reservoir is forecasted to peak next week at approximately 1486.5 feet msl, the third highest annual peak pool level on record.

Jamestown Reservoir elevation is 1450.7 feet msl, with 78% of the flood control pool occupied, and releases are 1,600 cfs. The reservoir peaked at elevation 1451.3 feet msl on May 1, the second highest peak pool level on record.

The combined Jamestown/Pipestem release rate has been 1800 cfs since April 17. Agency coordination regarding the long term release schedule has been completed. All agencies preferred maintaining the current 1,800 cfs release (without significant rainfall) until late June, then gradually ramping down with complete evacuation of flood storage by late August.

The Bureau of Reclamation's Glendo Reservoir is at elevation 4627.7 feet msl with 84% of the multipurpose pool occupied. The USBR May 1 forecast is for over 2 million acre-feet of runoff into the North Platte River Basin, 287% of normal. Agency and stakeholder conference calls began May 6 to coordinate the high releases on the North Platte River.

For more detailed information, see the attached.

Please contact [REDACTED] ([REDACTED]) or [REDACTED] ([REDACTED]) if you have any questions.

[REDACTED]  
[REDACTED]  
Hydrologic Engineering Branch  
US Army Corps of Engineers  
phone: [REDACTED]  
email: [REDACTED]@usace.army.mil

**Operational Summary  
Omaha District Tributary Reservoirs  
May 12, 2011**

**Water Control and Water Quality Section  
Hydrologic Engineering Branch**

**Detailed Summary**

Mountain snowpack on May 12, 2011 is 130% of the 30-year peak historical average. The Upper Missouri River snowpack is currently 126%, the Upper Yellowstone is 135%, the Upper North Platte Basin is 155% and the South Platte Basin is 140% of the 30-year peak historical average. These stations appear to have crested on the amount of Snow Water Equivalent (SWE). The entire mountainous portion of the Missouri River basin crested at 24 inches of SWE. The Upper Missouri crest was 25 inches, the Upper Yellowstone was 29 inches, the North Platte was 45 inches, and the South Platte was 21 inches of SWE. The snowpack in the Upper Milk River basin has melted.

**Omaha District Projects – Routine Activities**

Bear Creek Reservoir.

Bear Creek Reservoir went off operational status on May 11 and is releasing the inflow.

Bowman-Haley Dam and Reservoir, Bowman, ND

1.4% of the flood control is occupied at elevation 2755.4 ft msl. It is in a fill and spill operation with the gates open.

Bull Hook – Scott Coulee Dams.

Dry detention dams – no permanent storage.

Cedar Canyon Dam (Red Dale Gulch)

Dry detention dam – no permanent storage.

Chatfield Reservoir.

Normal operations. The multipurpose pool is 94% occupied with the reservoir at elevation 5430.9 ft msl, 1.1 feet below the top of the conservation pool. The gates were shut on May 2 and there is no release at this time.

Cherry Creek Reservoir.

Normal operations. The multipurpose pool is 91% occupied with the reservoir at elevation 5548.6 ft msl, 1.4 feet below the top of the conservation pool. The release is currently 15 cfs for water rights.

Cottonwood Springs Dam and Lake.

On March 31, an approximate pool elevation was taken at 3856 ft msl. The orifice line is out of the water. The pool has been coming up over the last year from its near record low. Top of conservation pool is 3875 ft msl.

#### Cold Brook Reservoir.

The Cold Brook drawdown was completed on April 25<sup>th</sup>. The current pool elevation is 3581.7 ft-msl. All non-water right flows will be shut off until the pool reaches 3582.0 ft-msl. At that point, a small release will be made to slow the pool's rate of fill.

#### Kelly Road and Westerly Creek Dam

Dry detention dams – no permanent storage.

#### Papillion Creek Dam No. 11 – Cunningham Dam

The reservoir was drawn down 3 feet in October and November of 2010 for rehabilitation work along the shoreline. On February 28 the gate was closed and was allowed to begin refilling. The multi-purpose pool was filled on April 22, 2011. Currently, the pool elevation is at 1121.2 ft msl and is in fill and spill operations.

#### Papillion Creek Dam No. 16 – Standing Bear Dam and Lake

Project is releasing 1 cfs in fill and spill operations.

#### Papillion Creek Dam No. 18 –Zorinsky Dam and Lake

Current drawdown elevation for zebra mussel control is 1091.7 ft msl, 18.3 feet below the conservation pool. A conference call with the Nebraska Game and Parks Commission and the City of Omaha was held March 29 and a possible option for rotenone application in June to kill remaining fish was discussed. If Veligers (young zebra mussels) are not present, the gate will be closed sometime in July. The Nebraska Game and Parks Commission agreed with this plan, but the City of Omaha continued to express concerns regarding safety issues, particularly if the lake is still down after school is out in the spring. The Corps has prepared a write-up describing the proposed procedures and timelines and has asked the City and Game and Parks for a response. The City has not provided a letter at this time. Until a letter is provided by the City, the Corps will continue with the current plan and keep the pool elevation drawn down.

#### Papillion Creek Dam No. 20 – Wehrspann Dam and Lake

Project is releasing 0 cfs in fill and spill operations.

#### Pipestem Dam and Lake

Pipestem Reservoir is currently at a level of 1486.0 feet msl with 69 percent of the flood control storage occupied. The current releases are 200 cfs and inflows are near 300 cfs. The reservoir is forecasted to peak next week at a level of approximately 1486.5 feet msl, which is the third highest annual peak pool level on record. The peak daily inflow into Pipestem Reservoir was 4,200 cfs on April 11.

The Jamestown/Pipestem combined reservoir release rate has been held at a level of approximately 1800 cfs since April 17. The Corps has completed agency coordination concerning the long term release schedule for Jamestown and Pipestem Reservoirs. Without significant additional rainfall, combined releases at 1800 cfs will be made until late June, then gradually ramped down with complete evacuation of flood storage by late August. The other option is to reduce releases to 1200 cfs in mid-June and hold at that level until mid-July, then gradually ramped down with complete evacuation of flood storage by mid-September. This option would take longer to evacuate storage. All



agencies favored the faster evacuation of storage, with the exception of Lamoure County, where the golf course near Grand Rapids is partially under water.

Salt Creek Dam No. 2 – Olive Creek Dam and Lake

Project is releasing 0 cfs in fill and spill operations.

Salt Creek Dam No. 4 – Bluestem Dam and Lake

Project is releasing 0 cfs in fill and spill operations.

Salt Creek Dam No. 8 – Wagon Train Dam and Lake

Project is releasing 11 cfs in fill and spill operations.

Salt Creek Dam No. 9 – Stagecoach Dam and Lake

Project is releasing 0 cfs in fill and spill operations.

Salt Creek Dam No. 10 – Yankee Hill Dam and Lake

Project is releasing 0 cfs in fill and spill operations.

Salt Creek Dam No. 12 – Conestoga Dam and Lake

Project is releasing 0 cfs in fill and spill operations.

Salt Creek Dam No. 13 – Twin Lakes Dam and Lake

Project is releasing 0 cfs in fill and spill operations.

Salt Creek Dam No. 14 – Pawnee Dam and Lake

Project is releasing 0 cfs in fill and spill operations.

Salt Creek Dam No. 17 – Antelope Creek Dam and Holmes Park Lake

Project is releasing 0 cfs in fill and spill operations.

Salt Creek Dam No. 18 – Branched Oak Dam and Lake

Project is releasing 7 cfs in fill and spill operations.

Spring Creek Dam and Lake Pocasse

Subimpoundment of Lake Oahe. Pool level is normally at or near elevation 1617 ft msl. Currently, the pool elevation is 1618.75. Snowmelt inflow was observed in March and April resulted in a peak pool elevation near 1620 ft msl on April 7. No concerns are expected unless the pool gets to elevation 1625 ft msl.

Snake Creek Dam and Lake Audubon.

Subimpoundment of Lake Sakakawea (Garrison Dam). The USBR regulates the pool level with their pumping plant.

## **Bureau of Reclamation Projects**

### Tiber Dam and Lake Elwell.

The pool is currently at elevation 2984.1 ft msl. The snowpack above Tiber peaked at 142% of the 30 year average peak. . Releases are near 1,900 cfs. Releases will be held at this level until plans to store or pass water are finalized.

### Canyon Ferry Reservoir.

The pool is currently near elevation 3778.9 feet msl and is being drawn down for the upcoming runoff season. Releases were increased to 12,000 cfs on May 11 in response to the recent rain events. Releases have been increased repeatedly to control the rate of rise in the reservoir. The USBR typically targets some elevation near the base of the joint use pool, elevation 3783 feet, msl, sometime prior to the spring runoff season.

### Clark Canyon Reservoir.

The pool elevation is at 5544.5 feet msl and slowly rising. This is 2 feet below the base of the flood pool. Snowpack above Clark Canyon peaked at 140% of normal peak snowpack. The current inflow is estimated at approximately 530 cfs and the release is 350 cfs.

### Yellowtail Dam.

The pool is currently near elevation 3607.4 ft msl. Normally, the USBR drafts the pool to 3620 ft msl, but it has been lowered nearly 17 feet since mid-April in anticipation of heavy runoff. The base of the joint use pool is 3614 ft msl. The snowpack above Yellowtail peaked near 140% of normal peak snowpack. Releases have been increased to control the rate of rise in the pool and in response to the recent rain events.

### Glendo Reservoir.

The pool elevation is 4627.9 ft msl with 84% of the multipurpose pool occupied. The USBR typically stores winter and spring flows in an attempt to reach the base of the flood control pool (4635 ft msl) prior to the beginning of irrigation season in the summer. Over the past month, the North Platte River System has evacuated storage in preparation for high inflows due to an above normal snow pack in the Upper North Platte and Laramie River Basins. The USBR May 1 system inflow forecast for the period of April through July was increased by 355,000 AF when compared to the April 1 forecast for the same period. The May 1 forecast is to see over 2 million AF of inflow into the North Platte River Basin. Agency and stakeholder conference calls began on May 6 to coordinate the high releases along the North Platte River.

### Jamestown Reservoir.

The current pool elevation is 1450.8 ft msl, 79% of the flood control pool occupied, and releases are 1,600 cfs. Inflows crested at 14,300 cfs on April 15 and are currently above 1,400 cfs. The reservoir peaked on May 1 at a level of 1451.3 feet above mean sea level (msl), which is the second highest annual peak pool level on record. Releases were reduced twice in the past week because of rainfall in the Jamestown area, but are now back to normal levels of 1,600 cfs. See Pipestem Reservoir for additional information about long-term releases.

Boysen Reservoir.

The pool level is 4711.4 ft msl, 5.6 feet below the base of the joint use pool (4717 ft msl). Prior to the spring runoff season the USBR will generally lower the pool to some elevation below the base of the joint use pool to create extra room for runoff.

Heart Butte Dam and Reservoir (Lake Tschida).

The pool level is 2064.7 ft msl with 1% of the flood pool occupied. Inflows are 308 cfs and releases are 680 cfs in fill and spill operations.

Keyhole Dam and Reservoir.

The pool level is elevation 4093.5 ft msl, 5.8 feet below the base of the conservation pool. Inflows increased from near zero last week to 487 cfs on May 10 and are now 189 cfs.

Pactola Dam and Reservoir.

The pool is near elevation 4579.4 ft msl, slowly rising. This is 0.8 feet below the base of the flood control pool, 4580.2 ft msl.

Shadehill Dam and Reservoir.

The pool is at the base of the flood pool, 2271.9 ft msl. Inflows are 370 cfs and releases are 547 cfs.

**Missouri River Mainstem Projects**

The current runoff forecast for the Missouri River mainstem is 44 million acre-feet (MAF), 178% of normal, which would be the second highest runoff season in 113 years of record keeping. The 49 MAF of runoff experienced in 1997 is the record high. In response to the unusually large amount of mountain snowpack above Fort Peck and Garrison, system releases from Gavins Point Dam have been increased to 56,500 cubic feet per second (cfs), and will be increased to 57,500 cfs in the next few days.. April's monthly average Gavins Point release was 30,300 cfs.

Fort Peck

Inflows to Fort Peck have ranged from 13,000 cfs to 63,000 cfs over the past week. Releases are currently 20,000 cfs. Powerplant releases were 9,500 cfs and 10,400 cfs was released through the spillway. The midnight pool reading was elevation 2241.8 ft msl, 4.2 feet below the top of the annual flood control pool. The exclusive flood pool is from elevation 2246.0 to 2250.0 ft msl.

Garrison

Garrison inflows have ranged from 36,000 cfs to 89,000 cfs this past week. Total releases from Garrison were increased to 46,000 cfs with 30,500 cfs released through the powerplant and 15,500 cfs released through the flood tunnels. Releases will be gradually increased over the next week. Rainfall early this week has increased flows on the Yellowstone River at Sidney MT to 80,000 cfs. Lake Sakakawea is currently at elevation 1848.5 ft msl, 1.5 feet from the top of the annual flood control pool. The Garrison pool elevation will likely enter the exclusive flood control zone next week as the Yellowstone river water makes its way into the reservoir. The exclusive pool is from 1850.0 to 1854.0 ft msl.

#### Oahe

Oahe's inflows have ranged from 37,000 cfs to 46,000 cfs over the past week. Powerplant releases are being scheduled at 38,000 cfs but actual releases have been under-schedule on several days. Outlet tunnel releases 19,000 cfs. Lake Oahe has been just under elevation 1617.0 ft msl, the base of the exclusive flood control pool for several weeks. The top of the exclusive flood control pool is 1620.0 ft msl.

#### Fort Randall

Lake Francis Case is near its normal spring and summer pool elevation at 1356.1 ft msl. Powerplant releases are 32,500 cfs and 22,500 cfs is being released over the spillway.

#### Gavins Point

Powerplant releases were 32,500 cfs on May 12 and 24,000 cfs was released over the spillway, for a combined total of 56,500 cfs. Releases are scheduled to be increased to 57,500 on May 16 and current plans are to hold that release rate through an extended navigation season ending the second week of December. Increased releases will be required if the runoff forecast is increased above the current 44 MAF.

[REDACTED] NWO

**From:** [REDACTED] NWO  
**Sent:** Wednesday, May 11, 2011 10:36 AM  
**To:** Farhat, Jody S NWD02  
**Subject:** FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
**Attachments:** Congressional - Baucus Transportation and Infrastructure Subcommittee, 4 Apr 11.pdf

Classification: UNCLASSIFIED  
Caveats: NONE

Jody,

Do you want to send your MT writeup to me and I add it to mine? I saw some email traffic later from [REDACTED] making sure they were coordinated.

Thanks,  
[REDACTED]

[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102  
[REDACTED] Office  
[REDACTED] Blackberry  
[REDACTED]@usace.army.mil

-----Original Message-----

**From:** [REDACTED] NWO  
**Sent:** Tuesday, May 10, 2011 2:48 PM  
**To:** [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO;  
[REDACTED] NWO; [REDACTED] NWO  
**Cc:** [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWK;  
Bertino, John J Jr NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO;  
[REDACTED] NWO  
**Subject:** RE: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)

All: Today we received a Congressional Tasker from Senator Max Baucus as a follow up to the Testimony Briefs by the ASA(CW). Need your assistance in meeting a Friday suspense by providing your responses for consolidation by Noon 12 May 2011, so we can consolidate and get to NWD. Please provide responses to [REDACTED] and myself.

Montana Flooding Questions #1 and 2: Kim Thomas Levee Accreditation Questions #1-6: [REDACTED]  
[REDACTED] - I am sending to you for situational awareness. I have asked NWD to consider that HQ should be providing the responses as they are corporate centric answers and not District centric answers. I expect to hear something back today from NWD.  
Missouri River Authorized Purpose Study: [REDACTED] - please prepare an interim response that basically states that the Appropriations Bill does not allow expenditure of FY11 funds on MRAPS. Work into the answer that we are working on FY10 appropriated funds.  
Intake Diversion Dam #1-3: [REDACTED] - please coordinate answers with [REDACTED] Question 1 will be more of an MRRP programmatic answer.

St. Mary Diversion Dam: [REDACTED] - our standard response for the last 3 years should be sufficient.

Please let me know if you have any questions.

Thanks,  
[REDACTED]

-----Original Message-----

From: [REDACTED] NWD  
Sent: Tuesday, May 10, 2011 2:02 PM  
To: [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD; [REDACTED] NWD  
Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE  
[REDACTED]

As we just discussed on the phone, attached is Senator Baucus's letter to Ms. Darcy. Please provide me with the consolidated District draft response by noon Pacific time on Friday, so we can review and make any necessary edits prior to transmittal to [REDACTED]

Thanks!  
[REDACTED]

-----Original Message-----

From: [REDACTED] HQ  
Sent: Tuesday, May 10, 2011 11:39 AM  
To: [REDACTED] NWD; [REDACTED] NWD  
Cc: [REDACTED] NWK; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD  
Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED], would you please work with the Omaha District to get a draft response to Senator Baucus's letter to Ms. [REDACTED]

Steve, would you please insert a draft section into the response addressing the levee piece?

I need the draft response back by COB this Friday.

Thanks for your help!

[REDACTED]  
[REDACTED]  
Northwestern Division  
Regional Integration Team (RIT)  
U.S. Army Corps of Engineers

441 G Street, NW  
3C93  
Washington, D.C. 20314-1000

[REDACTED] (voice)  
[REDACTED] (fax)  
[REDACTED] (mobile)

[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] HQ02  
Sent: Monday, May 09, 2011 6:08 PM  
To: [REDACTED] NWK  
Cc: [REDACTED] NWD  
Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
In [REDACTED]'s absence.

-----Original Message-----

From: [REDACTED] HQ02  
Sent: Monday, May 09, 2011 6:07 PM  
To: [REDACTED] HQ  
Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
Heads-up.

This tasker will be coming down thru official channels, shortly (see below).  
Since the suspense date for [REDACTED] signature is 23 May, recommend that you plan on having your draft at [REDACTED] NLT noon on Thu 19 May.

-----Original Message-----

From: [REDACTED] Ms CIV USA ASA CW [mailto:[REDACTED]@usace.army.mil]  
Sent: Monday, May 09, 2011 5:21 PM  
To: [REDACTED] Ms CIV USA ASA CW  
Cc: [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] HQ02; [REDACTED] CIV USA ASA CW; Jorns, Byron COL HQDA; [REDACTED] HQ02; [REDACTED] HQ02; Smith, Tong I LTC HQ02; [REDACTED] HQ  
Subject: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

Can you please assign a tasker to the attached regarding Senator Baucus's questions about flooding, levee accreditation and studies and projects in Montana.

The action officer is [REDACTED]

The suspense date is May 23.

Thanks,  
[REDACTED]

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE



[REDACTED] NWO

---

**From:** [REDACTED] NWD  
**Sent:** Thursday, May 12, 2011 11:58 AM  
**To:** [REDACTED] NWD02; Farhat, Jody S NWD02  
**Cc:** [REDACTED] NWD  
**Subject:** Sando Letter (UNCLASSIFIED)  
**Attachments:** Sando.pdf

Classification: UNCLASSIFIED  
Caveats: NONE

I mailed the original letter via USPS today to Mr. Sando. I sent via interoffice mail: a photocopy of attached letter to Mr. Sando; the staffing sheet; and a copy of the letter from the State of North Dakota.

Great job on this letter! Your conscientiousness is obvious and well appreciated.

[REDACTED]

Classification: UNCLASSIFIED  
Caveats: NONE



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, NORTHWESTERN DIVISION  
PO BOX 2870  
PORTLAND OR 97208-2870

MAY 12 2011

REPLY TO  
ATTENTION OF

Missouri River Basin Water Management Division

Mr. Todd Sando  
North Dakota State Engineer  
900 East Boulevard Avenue  
Bismarck, North Dakota 58505-0850

Dear Mr. Sando:

Thank you for your letter dated April 20, 2011, expressing your concern about high reservoir levels at Garrison and Oahe, and the additional runoff that will be generated by the melting mountain snowpack. As you may know, despite the fact that all of last year's flood water was evacuated from the Missouri River mainstem reservoir system, over 8.5 million acre-feet of flood water has already accumulated in the system due to the melt of the plains snowpack. The mountain snowpack, which was 112 percent of normal in early April, is now more than 135 percent of the normal peak.

My staff at the Missouri River Basin Water Management Division continually assesses the potential basin runoff and the status of the reservoir system. Evacuation of stored flood waters is underway. Releases from Gavins Point have been increased from 21,000 cfs in early April to 45,000 cfs on April 28. An additional increase to 57,500 cfs is planned for early May. Releases from Garrison were increased beginning April 30, and will reach 49,000 cfs by mid-May. Releases from Garrison will be held nearly steady as daily averages approach and eventually exceed powerplant capacity. Steady releases will not prevent bank erosion, but are expected to lessen the impact.

This year has the potential to be one of the wettest years on record in the Missouri River basin. With the current and forecasted conditions in the basin, it is very likely that a portion of the exclusive flood control zone will be utilized at Garrison and Oahe reservoirs this year. The exclusive flood control zone is only used during significant runoff events and will be evacuated as quickly as downstream conditions permit while still serving the overall flood control objective of protecting life and property.

I understand the importance of Garrison and Oahe reservoirs and the Missouri River to citizens in the State of North Dakota and appreciate your commitment to raise these issues on their behalf. If you have any questions, please feel free to contact me at (503) 808-3700 or Jody Farhat, Chief of Missouri River Basin Water Management Division at (402) 996-3840.

Sincerely,

John R. McMahon  
Brigadier General, US Army  
Division Commander

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Thursday, May 12, 2011 10:36 AM  
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Cc: Farhat, Jody S NWD02; [REDACTED] NWO  
Subject: RE: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

Combined response from Jody Farhat and myself:

1. In early February 2011, the Omaha District initiated coordination meetings with the State of Montana to discuss USACE PL 84-99 Authorities and the States' potential flood risks. Since the meeting, USACE Omaha District has provided technical assistance to numerous communities in the entire State to evaluate the overall flood threat. Due to the record snowpack in the Milk River basin, USACE designed and constructed a temporary levee in Nashua, MT to reduce the overall flood risk to the community. The USACE Omaha District also provided pumps and sandbags to various communities during the Plains spring runoff event. The USACE Omaha District has also provided technical assistance to numerous Tribes including Blackfeet Nation, Fort Belknap, and Rocky Boys.

Much above normal runoff is also occurring in the upper Missouri River basin. Mountain snowpack in the reach above Fort Peck appears to have crested in early May at 141 percent of the normal peak accumulation. Fort Peck reservoir experienced the highest end-of-April elevation since 1996 and is forecast to reach levels not seen since the record runoff year in 1997. Releases are being scheduled to provide an orderly evacuation of stored flood water through the remainder of the year.

2. USACE will continue to monitor the flood risks for critical public infrastructure for the State of Montana and mitigate those risks as necessary. USACE Omaha District has been provided the necessary resources to date to assist the State during this record flood season. Thank you for your continued support and assistance throughout this event.

[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102  
[REDACTED] Office  
[REDACTED] Blackberry  
[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] NWO  
Sent: Tuesday, May 10, 2011 2:48 PM  
To: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO;  
[REDACTED] NWK; [REDACTED] NWK; [REDACTED] NWK;  
Cc: [REDACTED] H NWO; [REDACTED] W NWO; [REDACTED] NWK;  
Bertino, John J Jr NWO; [REDACTED] M NWO; [REDACTED] NWO; [REDACTED] NWO;  
[REDACTED] NWO  
Subject: RE: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)

All: Today we received a Congressional Tasker from Senator Max Baucus as a follow up to the Testimony Briefs by the ASA(CW). Need your assistance in meeting a Friday suspense by providing your responses for consolidation by Noon 12 May 2011, so we can consolidate and get to NWD. Please provide responses to [REDACTED] and [REDACTED].

Montana Flooding Questions #1 and 2: [REDACTED] Levee Accreditation Questions #1-6: [REDACTED]  
[REDACTED] - I am sending to you for situational awareness. I have asked NWD to consider that HQ should be providing the responses as they are corporate centric answers and not District centric answers. I expect to hear something back today from NWD.  
Missouri River Authorized Purpose Study: [REDACTED] - please prepare an interim response that basically states that the Appropriations Bill does not allow expenditure of FY11 funds on MRAPS. Work into the answer that we are working on FY10 appropriated funds.  
Intake Diversion Dam #1-3: [REDACTED] and [REDACTED] - please coordinate answers with [REDACTED] Question 1 will be more of an MRRP programmatic answer.  
St. Mary Diversion Dam: [REDACTED] - our standard response for the last 3 years should be sufficient.

Please let me know if you have any questions.

Thanks,  
[REDACTED]

-----Original Message-----

From: [REDACTED] NWD  
Sent: Tuesday, May 10, 2011 2:02 PM  
To: [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] W NWO; [REDACTED] NWD; [REDACTED] NWD  
Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]  
As we just discussed on the phone, attached is Senator Baucus's letter to Ms. [REDACTED]. Please provide me with the consolidated District draft response by noon Pacific time on Friday, so we can review and make any necessary edits prior to transmittal to [REDACTED].

Thanks!  
[REDACTED]

-----Original Message-----

From: [REDACTED] HQ  
Sent: Tuesday, May 10, 2011 11:39 AM  
To: [REDACTED] NWD; [REDACTED] NWD  
Cc: [REDACTED] NWK; [REDACTED] NWD; [REDACTED] NWD; [REDACTED] NWD  
Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)  
Importance: High

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] would you please work with the Omaha District to get a draft response to Senator Baucus's letter to Ms. [REDACTED]

Steve, would you please insert a draft section into the response addressing the levee piece?

I need the draft response back by COB this Friday.

Thanks for your help!

[REDACTED]  
[REDACTED]  
Northwestern Division  
Regional Integration Team (RIT)  
U.S. Army Corps of Engineers  
441 G Street, NW  
3C93  
Washington, D.C. 20314-1000

[REDACTED] (voice)

[REDACTED] (fax)

[REDACTED] (mobile)

[REDACTED]@usace.army.mil

-----Original Message-----

From: [REDACTED] HQ02

Sent: Monday, May 09, 2011 6:08 PM

To: [REDACTED] NWK

Cc: [REDACTED] HQ; [REDACTED] NWD

Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)

Importance: High

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]  
In [REDACTED] absence.

-----Original Message-----

From: [REDACTED] HQ02

Sent: Monday, May 09, 2011 6:07 PM

To: [REDACTED] HQ

Subject: FW: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)

Importance: High

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]  
Heads-up.

This tasker will be coming down thru official channels, shortly (see below).

Since the suspense date for [REDACTED] signature is 23 May, recommend that you plan on having your draft a [REDACTED] NLT noon on Thu 19 May.

Mike

-----Original Message-----

From: [REDACTED] Ms CIV USA ASA CW [mailto:[REDACTED]@us.army.mil]

Sent: Monday, May 09, 2011 5:21 PM

To: [REDACTED] Ms CIV USA ASA CW

Cc: [REDACTED] HQ02; [REDACTED] HQ02; P-[REDACTED]

HQ02; [REDACTED] CIV USA ASA CW; Jorns, Byron COL HQDA; [REDACTED] HQ02;

[REDACTED] HQ02; Smith, Tong I LTC HQ02; MacDonald, Glen A MAJ HQ

Subject: Tasker: S: May 23 - CONGRESSIONAL - Sen Baucus - Questions for ASA-CW after T&I Hearing (UNCLASSIFIED)

Importance: High

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

Can you please assign a tasker to the attached regarding Senator Baucus's questions about flooding, levee accreditation and studies and projects in Montana.

The action officer is [REDACTED]

The suspense date is May 23.

Thanks,

[REDACTED]

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

---

**From:** [REDACTED] NWO  
**Sent:** Thursday, May 12, 2011 9:04 AM  
**To:** [REDACTED] NWD02  
**Cc:** Farhat, Jody S NWD02  
**Subject:** RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Any idea how much we're looking to increase? I'd really like to have an idea so I can discuss that with the State Water Commission and Emergency Management staff at our meeting this afternoon. It sounds like Todd Sando called the meeting because he believes we're going to need to go to higher releases than 49,000 cfs and he wants the county and cities to be prepared. I believe that's the purpose for our meeting this afternoon, so any information on where you think we'll end up would be beneficial.

-----Original Message-----

**From:** [REDACTED] NWD02  
**Sent:** Thursday, May 12, 2011 8:11 AM  
**To:** [REDACTED] NWO  
**Cc:** Farhat, Jody S NWD02  
**Subject:** RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]

I was just about to send you an email. We are tracking a lot of water on the Yellowstone right now due to the recent rain. The forecast for Sidney is around 80 kcfs, which means significant inflows into Garrison this weekend and early next week.

We'll probably run a preliminary monthly study early next week, but it will most likely increase the release rate from Garrison in the near future.

[REDACTED]

-----Original Message-----

**From:** [REDACTED] NWO  
**Sent:** Thursday, May 12, 2011 8:08 AM  
**To:** [REDACTED] NWD02  
**Cc:** Farhat, Jody S NWD02  
**Subject:** RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED]

I see that Bismarck is now at 12.15 so expect that a 2,000 cfs increase is going to put us closer to a 12.4 foot stage. County Emergency Managers have folks nervous as they have opened up self serve sandbagging stations. The press is all over that and wanting to know what we're flooding? I have a call into the Burleigh County EM and will be meeting with the State folks this afternoon.

For the record, my gut feeling is that we're still under forecasting. Conditions in ND and Eastern Montana are extremely wet! Thus I expect we're going to see a much higher % of

runoff from rain events than normal. Additionally, it's been very cool and cloudy with high humidity levels. We're seeing very limited drying and evaporation.

My 2 cents from ground level...

-----Original Message-----

From: [REDACTED] NWD02

Sent: Wednesday, May 11, 2011 11:11 AM

To: [REDACTED] NWO

Subject: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

[REDACTED]

Bismarck hasn't quite leveled off yet, but it looks like the stage will be near 12 ft. We are going to schedule 46 kcfs for tomorrow (up 2 kcfs at 0800). That should increase Bismarck about 0.25 ft. The remainder of the changes will probably be 1 kcfs changes - possibly every few days until we get to 49 kcfs. Based on the rain/snow over the last few days there's a good chance we may need to increase releases up higher than 49 kcfs. I don't have a number at this point but it may be 50 or 51 kcfs.

[REDACTED]

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE



[REDACTED] NWO

---

From: [REDACTED] NWD02  
Sent: Thursday, May 12, 2011 8:11 AM  
To: [REDACTED] NWO  
Cc: Farnat, Jody S NWD02  
Subject: RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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[REDACTED]  
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From: [REDACTED] NWO  
Sent: Thursday, May 12, 2011 8:08 AM  
To: [REDACTED] NWD02  
Cc: Farnat, Jody S NWD02  
Subject: RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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My 2 cents from ground level...

[REDACTED]  
-----Original Message-----  
From: [REDACTED] NWD02  
Sent: Wednesday, May 11, 2011 11:11 AM  
To: [REDACTED] NWO  
Subject: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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Classification: UNCLASSIFIED  
Caveats: NONE

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Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Thursday, May 12, 2011 8:08 AM  
To: [REDACTED] NWD02  
Cc: Farhat, Jody S NWD02  
Subject: RE: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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My 2 cents from ground level...

[REDACTED]  
-----Original Message-----

From: [REDACTED] NWD02  
Sent: Wednesday, May 11, 2011 11:11 AM  
To: [REDACTED] NWO  
Subject: Garrison Release Schedule (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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[REDACTED]  
Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Wednesday, May 11, 2011 12:53 PM  
To: Farhat, Jody S NWD02; [REDACTED] NWO  
Subject: RE: Surveillance triggers Revised 5May12.xlsx (UNCLASSIFIED)

Not bad. Unfortunately, I could only remember 4 of the 9 trigger levels.

[REDACTED]  
[REDACTED]  
[REDACTED] usace.army.mil

-----Original Message-----

From: Farhat, Jody S NWD02  
Sent: Wednesday, May 11, 2011 12:10 PM  
To: [REDACTED] NWO; Bertino, John J Jr NWO; [REDACTED] NWD02  
Cc: [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED] NWO;  
[REDACTED] J NWO; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWO; [REDACTED]  
[REDACTED] NWD02; Farhat, Jody S NWD02  
Subject: RE: Surveillance triggers Revised 5May12.xlsx (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] may have been right, but 8 of 9 from memory is still impressive.

Some of you may have left before [REDACTED] brought up the fact that the Master Manual is essentially silent regarding operation of the gates. I suggested that we could include a letter from the District in the Manual regarding recommended guidelines for operation of the gates.

If we decide it would be useful to have such a letter, we should closely scrutinize the language. What we wouldn't want is for a letter to tie the District's hands or ours, or be so rigid that we cannot operate in some other manner that would provide added benefit or reduced risk based on the situation. While it would never be my intention to go against the recommendation of the Dam Safety Officer, I think the letter should provide for extensive coordination prior to raising the gates. Before we ever get to that point, we should be meeting regularly to discuss the forecasts, impacts of opening the gates, options to avoid spillway operations especially at Garrison and Oahe such as increasing releases through the outlet tunnels, and any other measures the District may want to implement if the gates are operated. As such, the letter would need to address both the process and the gate operation recommendations.

I don't see this as something that needs to be done prior to this year's high pools, but something that we should work on over the coming year or so before any more expertise walks out the door. As we all noted this morning, these high water events don't come along very often and there are very few folks remaining that were here in 1997.

Again, thanks for meeting with us this morning. I thought it was a very useful exchange of information.

V/R,  
Jody

-----Original Message-----

From: [REDACTED] NWO

Sent: Wednesday, May 11, 2011 10:51 AM

To: Farhat, Jody S NWD02; Bertino, John J Jr NWO; [REDACTED] NWD02

Cc: [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] M NWO; [REDACTED] NWO;

[REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] K NWO

Subject: Surveillance triggers Revised 5May12.xlsx

Current surveillance triggers are attached. [REDACTED] was right, I misspoke on Garrison and forgot we revised the Daily trigger from 1852 to 1854

Classification: UNCLASSIFIED

Caveats: NONE

**From:** Farhat, Jody S NWD02  
**Sent:** Wednesday, May 11, 2011 12:10 PM  
**To:** [REDACTED] NWO; Bertino, John J Jr NWO; [REDACTED] NWD02  
**Cc:** [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NW;  
[REDACTED] NWO; [REDACTED] NWO; [REDACTED] B NWO; [REDACTED] NW;  
K NWO; [REDACTED] NWD02; Farhat, Jody S NWD02  
**Subject:** RE: Surveillance triggers Revised 5May12.xlsx (UNCLASSIFIED)

**SWO**

**From:** [REDACTED] NWO  
**Sent:** Wednesday, May 11, 2011 11:30 AM  
**To:** [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWO  
**Subject:** FW: spillway pictures 10, 000 cfs (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

FYI

-----Original Message-----

[illegible]

Classification: UNCLASSIFIED  
Caveats: NONE

To all,

I took pictures and video of the spillway yesterday. If you would like to view they can be found at the link below:

\\nwofp43fp\NWO-OD-FP\ODFP PUB\Spillway\Patricia <file:///\\nwofp43fp\NWO-OD-FP\ODFP PUB\Spillway\Patricia>

US Army Corps of Engineers  
Fort Peck Project  
PO BOX 208, Fort Peck, MT 59223  
usace.army.mil

"Humans are the ultimate weed species...We have shown an incredible ability to invade, change, and inhabit every habitat type on the planet." Richard R.

Classification: UNCLASSIFIED

Caveats: NONE

Classification: UNCLASSIFIED

Caveats: NONE



**NWO**

**From:** Quinn, Kevin R NWO  
**Sent:** Friday, May 13, 2011 4:55 PM  
**To:** Farhat, Jody S NWD02  
**Subject:** RE: Riverwatch Daily (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Thank you. kq

-----Original Message-----

**From:** Farhat, Jody S NWD02  
**Sent:** Friday, May 13, 2011 4:54 PM  
**To:** Quinn, Kevin R NWO; [REDACTED] NWO; Thomas, Kimberly S NWO  
**Subject:** RE: Riverwatch Daily (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Kevin - I'll update the numbers on the release you just sent me and send it back to you to distribute to Cecily. I will shoot to have it to you between 1030 and 1100 every day so folks will have it prior to the 1130 conference calls on MWF.

[REDACTED] - do you think this schedule will meet the other parties' need?

Jody

-----Original Message-----

**From:** Quinn, Kevin R NWO  
**Sent:** Friday, May 13, 2011 4:46 PM  
**To:** [REDACTED] NWO; Farhat, Jody S NWD02; Thomas, Kimberly S NWO  
**Subject:** FW: Riverwatch Daily (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Your copy of the initial release. Let me know who will update these figures each day and what time I can send them to Cecily. Thank you. kq

-----Original Message-----

**From:** Quinn, Kevin R NWO  
**Sent:** Friday, May 13, 2011 4:44 PM  
**To:** 'cfong@nd.gov'  
**Subject:** Riverwatch Daily (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Thank you Cecily. I will be sending you updates in the early afternoon on Saturday and Sunday. Thank you. Kq 402-995-2419 (office)  
402-779-1450 (cell)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 4:55 PM  
To: Farhat, Jody S NWD02; Quinn, Kevin R NWO; Thomas, Kimberly S NWO  
Subject: RE: Riverwatch Daily (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Yes that should be fine. Thanks!

-----Original Message-----

From: Farhat, Jody S NWD02  
Sent: Friday, May 13, 2011 4:54 PM  
To: Quinn, Kevin R NWO; [REDACTED] NWO; Thomas, Kimberly S NWO  
Subject: RE: Riverwatch Daily (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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[REDACTED] do you think this schedule will meet the other parties' need?

Jody

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Sent: Friday, May 13, 2011 4:46 PM  
To: [REDACTED] NWO; Farhat, Jody S NWD02; Thomas, Kimberly S NWO  
Subject: FW: Riverwatch Daily (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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Classification: UNCLASSIFIED  
Caveats: NONE

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402-779-1450 (cell)

Classification: UNCLASSIFIED  
Caveats: NONE

[REDACTED] NWO

---

**From:** Quinn, Kevin R NWO  
**Sent:** Friday, May 13, 2011 4:46 PM  
**To:** [REDACTED] NWO; Farhat, Jody S NWD02; [REDACTED] NWO  
**Subject:** FW: Riverwatch Daily (UNCLASSIFIED)  
**Attachments:** NR-RIVERWATCH5-11.docx

Classification: UNCLASSIFIED  
Caveats: NONE

Your copy of the initial release. Let me know who will update these figures each day and what time I can send them to Cecily. Thank you. kq

-----Original Message-----

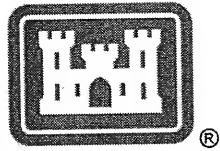
**From:** Quinn, Kevin R NWO  
**Sent:** Friday, May 13, 2011 4:44 PM  
**To:** 'cfong@nd.gov'  
**Subject:** Riverwatch Daily (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

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402-779-1450 (cell)

Classification: UNCLASSIFIED  
Caveats: NONE

Classification: UNCLASSIFIED  
Caveats: NONE



U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

# NEWS RELEASE

For Immediate Release: July 2, 2011

Contact: Kevin R. Quinn 402-995-2419

kevin.r.quinn@usace.army.mil

Jody Farhat 402-996-3840

## Riverwatch Daily – Garrison and Oahe Dams

### Update #1

**OMAHA, Neb.** – Due to high runoff from the far-above-normal plains and mountain snowmelt, the U.S. Army Corps of Engineers is evacuating large volumes of water from Garrison Dam in Riverdale, N.D. and Oahe Dam near Pierre, S.D.

In expectation of continued high runoff, the U.S. Army Corps of Engineers will release a daily bulletin detailing releases and levels for both dams. Below are the May 13, 2011 statistics for the two dams:

#### Daily Information Update

##### **Garrison Dam and Lake Sakakawea:**

- Midnight reservoir level – 1848.8 feet mean sea level
- Yesterday's Reservoir Inflow – 100,000 cubic feet per second (cfs)
- Current Reservoir Release – 46,000 cfs
- Annual Flood control and multiple use zone – El. 1,837.5 to 1,850 msl
- Exclusive flood control zone– El. 1,850-1,854 msl
- Top of spillway gates - 1,854 feet msl
- 6 a.m. River Stage at Bismarck-12.3 feet (Flood stage at Bismarck-16.0 feet)
- Planned scheduled releases
  - Saturday May 14: increases to 48,000 at 8 am
  - Sunday, May 15: Hold 48,000 cfs
  - Monday, May 16: increase to 50,000 cfs at 8 am.

##### **Oahe Dam and Lake:**

- Midnight reservoir level – 1616.8 feet msl
- Yesterday's Reservoir Inflow – 53,000 cfs
- Yesterday's Reservoir Release – 44,400 cfs
- 6 am river stage at Pierre 10.4 feet (Flood stage 15.0)
- Annual Flood control and multiple use zone – El. 1607.5 to 1617.0 feet msl
- Exclusive flood control zone – El. 1617.0 to 1620.0 feet msl
- Top of spillway gates: - 1620.0 feet msl
- Planned scheduled releases:
  - Hold 56,000 cfs through Monday

Garrison Dam is a 210-foot high rolled earth embankment. Discharges are normally passed through five power tunnels having a combined discharge capacity of 41,000 cfs, and three flood tunnels having a combined discharge capacity of 98,000 cfs. They may also be passed through the spillway when necessary. The spillway is equipped with 28 tainter gates and has a maximum discharge capacity of 660,000 cfs at the top of its flood control zone. NOTE: The Corps has never previously used the spillway for releases. The Corps anticipate that all releases this year will go through the power plant and regulating tunnels.

(more)

[Type text]

Oahe Dam is a 245-foot high rolled earth embankment. Discharges are normally passed through seven power tunnels having a combined discharge capacity of 56,000 cfs, and six flood tunnels having a combined discharge capacity of 111,000 cfs. They may also be passed through the spillway when necessary. The spillway is equipped with eight tainter gates and has a maximum discharge capacity of 80,000 cfs at the top of its flood control zone. NOTE: The Corps has never previously used the spillway for releases. The Corps anticipates that all releases this year will be made through the power plant and outlet tunnels.

Daily bulletin updates are available from the Corps' website: <https://www.nwo.usace.army.mil/>

Northwestern Division's water management website for the most up to date information:  
<http://www.nwd-mr.usace.army.mil/rcc/index.html>

U.S. Army Corps of Engineers Contact: Jody Farhat, Chief, Missouri River Basin Water Management 402-996-3840

###

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 4:45 PM  
To: Farhat, Jody S NWD02  
Subject: RE: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Jody,  
Do you know how many folks can call in to the number you provided?

[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02  
Sent: Friday, May 13, 2011 2:05 PM  
To: [REDACTED] NWO  
Subject: RE: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] - this looks great. Sorry for responding so late.

-----Original Message-----

From: Lindquist, Todd J NWO  
Sent: Friday, May 13, 2011 11:22 AM  
To: Farhat, Jody S NWD02; Thomas, Kimberly S NWO; Allen Schlag; Farmer, Monique L NWO  
Cc: Schenk, Kathryn M NWO; Stasch, Eric D NWO  
Subject: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I've attached my "draft" message that I intend to send to the following invitees for our conference calls.

- Burleigh County EM (Mary Senger)
- Morton County EM (Tammy Lapp-Harris)
- Oliver County EM (Sandy Olin)
- McLean County EM (Richard Johnson)
- Sioux County EM (Frank Landels)
- City of Bismarck EM (Gary Stockert)
- National Weather Service (Allen Schlag)
- ND DES (Amy Anton, Kathleen Donahue, Cecily Fong)
- ND SWC (Bruce Engelhardt, Kelly Casteel)

Please review and provide any suggestions, or comments, regarding the invitees or my message below. I plan to get this out this afternoon so would appreciate any feedback by 1:00 today.  
Thanks!

[REDACTED]

"DRAFT MESSAGE":

All,  
In an attempt to keep agencies along the Missouri River informed about releases from Garrison Dam and potential river stages, we are scheduling routine conference calls. Beginning next week, Monday May 16th, we will conduct a conference call, via a call in number. You are invited to participate in these calls. Currently we are scheduling the calls for Monday, Wednesday and Friday of next week. The calls will be conducted at 11:30 a.m.

During these calls, the Corps of Engineers will provide information on current; reservoir inflows, elevations, and releases. The National Weather Service will also be participating and will provide river stage information, as well as forecast updates, as needed. Following discussion of our release plans, we'd like to hear feedback from the Counties regarding impacts and issues that you're seeing as we increase releases.

As we host the calls next week, we'll discuss the need for continued communication and decide if additional periodic calls are warranted through this time of high releases. Here is the call in information:

USA Toll-Free: [REDACTED]

ACCESS CODE: [REDACTED]

Security Code (if requested): [REDACTED]

If you have any additional questions pertaining to the calls, or our operations, feel free to contact Jody Farhat (Chief of Missouri River Water Management Division) or I. Jody can be reached at 402-996-3840. I can be reached at (701) 654-7411 ext. 207.

[REDACTED]  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

From: Quinn, Kevin R NWO  
Sent: Friday, May 13, 2011 4:41 PM  
To: [REDACTED] NWO; Farhat, Jody S NWD02; Thomas, Kimberly S NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: RE: URGENT: Riverwatch Daily --final (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I will need information -- please let me know who will be updating the figures for me. I will revise each day and send to Cecily. Thanks kq

-----Original Message-----

From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 4:39 PM  
To: Farhat, Jody S NWD02; Quinn, Kevin R NWO; Thomas, Kimberly S NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: RE: URGENT: Riverwatch Daily --final (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Cecily Fong with the State said that she'd send it out for us over the weekend. We need to update the information and get it to her. I'm assuming Kevin will coordinate that? If not, please let me know. I think this will be well received. Thanks for everyone's assistance!

[REDACTED]

-----Original Message-----

From: Farhat, Jody S NWD02  
Sent: Friday, May 13, 2011 4:25 PM  
To: Quinn, Kevin R NWO; [REDACTED] NWO; Thomas, Kimberly S NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: RE: URGENT: Riverwatch Daily --final (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I have no additional comments on the release. You can put me on as the contact. My info is below.

Still wondering about if and how this will go out on the weekend.

Jody Farhat, P.E.  
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil  
Office: 402-996-3840

-----Original Message-----

From: Quinn, Kevin R NWO  
Sent: Friday, May 13, 2011 4:08 PM



To: Farhat, Jody S NWD02; [REDACTED] NWO; Thomas, Kimberly S NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: URGENT: Riverwatch Daily --final (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Here is the final version, except I need to add a contact's name on it. Who will that be? I have Incorporated all changes from [REDACTED] and Jody. Have a look and let me know when it's final. The state is going to disseminate it in about 30-45 minutes, as per [REDACTED] arrangement.

-----Original Message-----

From: Farhat, Jody S NWD02  
Sent: Friday, May 13, 2011 3:26 PM  
To: [REDACTED] NWO; Thomas, Kimberly S NWO  
Cc: [REDACTED] NWO; Quinn, Kevin R NWO  
Subject: RE: Riverwatch Daily draft format (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

With my edits and the numbers filled in.

Let me know if you have any questions.

Are we putting this out over the weekend, and if so, who do I send it to?

Jody

-----Original Message-----

From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 2:23 PM  
To: Thomas, Kimberly S NWO; Farhat, Jody S NWD02  
Cc: [REDACTED] NWO; Quinn, Kevin R NWO  
Subject: RE: Riverwatch Daily draft format (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I've attached my comments and filled in some of the information pertaining to Garrison. Cecily Fong, Public Information Officer, ND Department of Emergency Services offered to release our daily bulletins via their distribution system. Apparently it covers city, county and Federal Officials as well as the media. This might be a good way to distribute this to ensure that we get everyone covered? We can visit with Cecily if you want more details?  
[REDACTED]

-----Original Message-----

From: Thomas, Kimberly S NWO  
Sent: Friday, May 13, 2011 2:01 PM  
To: Farhat, Jody S NWD02; [REDACTED] NWO  
Cc: [REDACTED] NWO; Quinn, Kevin R NWO  
Subject: FW: Riverwatch Daily draft format (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,

Please take a quick look at this to be used as the daily RiverWatch bulletin and provide comments.

Thanks,  
Kim

Kimberly S. Thomas  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102  
402-995-2448 Office  
402-490-5099 Blackberry  
kimberly.s.thomas@usace.army.mil

-----Original Message-----

From: Quinn, Kevin R NWO  
Sent: Friday, May 13, 2011 1:52 PM  
To: Thomas, Kimberly S NWO  
Subject: Riverwatch Daily draft format (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Please look over draft and get back to me with revisions. Thanks kq

-----Original Message-----

From: Thomas, Kimberly S NWO  
Sent: Thursday, May 12, 2011 8:53 PM  
To: DLL-CENWO-EOC CMT-ALL [REDACTED] NWO; [REDACTED] L HQ02; [REDACTED] NWK  
Cc: CENWD-EOC NWD; [REDACTED]  
Subject: Flood Update #62 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

**\*\*EMERGENCY OPERATIONS\*\***

1. Situation:  
USACE Omaha District received a request for Advanced Measure Direct Assistance for the communities of Elk Mountain, Medicine Bow, and Saratoga from the State of Wyoming on 09 May 2011.

All Missouri Mainstem Dams (Ft. Peck, Garrison, Oahe, Ft. Randall, and Gavins), with the exception of Big Bend, are passing water through either their spillway, flood tunnels, or outlet works in addition to the water flowing through the powerhouses.

Mountain snowpack on May 12, 2011 is 130% of the 30-year peak historical average. The Upper Missouri is 126%, the Upper Yellowstone is 135%, the Upper North Platte is 155% and the South Platte Basin is 140% of the 30-year peak historical average.

Participated in collaboration call with the Bureau of Reclamation and the National Weather Service to discuss the flood situation on the North Platte River Basin. Most probable forecast indicates that the following river stretches will need to pass the following

discharges: Alcova to Glendo(6000 cfs), Glendo to Whalen(9000 cfs), Whalen to the State Line(9000 cfs), State Line to Lake McConaughy(9000 cfs), and North Platte(5500 cfs). USACE, BOR, and NWS will be meeting with both the State of WY and State of NE tomorrow to share this information. It is believed that they current channel capacity from the State Line through North Platte will not be able to handle the flows. The discharge at North Platte is currently 2500 cfs with no additional capacity. The Bureau of Reclamation's Glendo Reservoir is at elevation 4627.7 feet msl with 84% of the multipurpose pool occupied. The USBR May 1 forecast is for over 2 million acre-feet of runoff into the North Platte River Basin, 287% of normal.

Garrison Project Office(ND) is back to 24 hour operation of the Williston pumping plant, due to excessive runoff from snow melt and the recent heavy rains in that area. They are experiencing some challenges with the new diesel pumps and are working those issues with the contractor. The Garrison Project was informed that the Williams County Emergency Manager was going to request assistance from the State EOC. They did not elaborate on the request, but Williston is dealing with multiple issues. They have been dumping their lagoons in order to increase capacity for inflows into their treatment system, their interior drainage systems are overwhelmed and many folks are having issues with water in their basements. The challenges in Williston are compounded by the overwhelming demands from the oil boom in this area. The Garrison project office currently has it under control.

Alabama Tornadoes: [REDACTED] is currently deployed to support the debris SME and Eileen Williamson is deployed to provide PAO support to MVS.

## 2. Weather:

### 2a. Past Precipitation:

Much of western and central Nebraska received over 1" of rainfall with other parts of Nebraska seeing up to 0.5" of rain. The Denver area had 1"-2" of rain. The lower Nishnabotna basin received 1"-3" of rain with heavier amounts falling just outside the basin. Western Iowa and northeast Nebraska had amounts up to 1". See attached.

### 2b. Future Precipitation:

The day 1 QPF (700 hours Thursday to 700 hours Friday) Lingering storms could bring 0.25"-0.75" of rain to western Nebraska, southern South Dakota and the southeast corner of the District.

The day 2 QPF (700 hours Friday to 700 hours Saturday) 0.2"-0.5" of rain/snow possible in central Colorado. Little to no precipitation through much of the District.

The day 3 QPF (from 700 hours Saturday to 700 hours Sunday) 0.2"-0.5" of rain/snow could fall in central Colorado. Little to no precipitation through much of the District.

### 2c. Temperatures:

Attached is a spreadsheet with the high and low temperatures for the next 7 days at Aberdeen, SD; Bismarck, ND; Jamestown, ND; Glasgow, MT; and Havre, MT. High temperatures in the Dakotas and Montana will be in the 50s and 60s. Low temperatures will be near 40 degrees.

## 3. Hydro Status:

### 3a. River/Current Stage/Forecast Stage/Date of Peak:

#### North Dakota

- \* James River at Jamestown/11.7'(1,900 cfs)//steady
- \* James River at LaMoure/11.98'/12.1'/May 13

#### Nebraska

- \* North Platte River at North Platte/6.58'/6.6'/May 13
- \* Missouri River at Omaha/25.94'/26.1/May 15
- \* Missouri River at NE City/19.36'/19.6/May 13

- \* Missouri River at Brownville/34.9'/35.3'/May 13
- \* Missouri River at Rulo/18.6'/19'/May 13

### 3.b Reservoirs:

Pipestem Reservoir rose 0.1' yesterday to elevation 1485.99 ft-msl. Yesterday's daily inflows were 656 cfs. 200 cfs are being released. 68.5% of the flood pool is occupied.

Jamestown Reservoir fell 0.1' yesterday to elevation 1450.8 ft-msl. The pool is near its crest. Yesterday's daily inflows were near 1,720 cfs. Releases were 1,600 cfs. The combined release is 1,800 cfs. 78.8% of the flood pool is occupied.

Fort Peck Dam  
 Pool Elevation: 2241.81 ft-msl  
 24 hr change: 0.16'  
 Inflow: 40,000 cfs  
 Release: 20,100 cfs

Garrison Dam  
 Pool Elevation: 1848.51 ft-msl  
 24 hr change: 0.03'  
 Inflow: 60,000 cfs  
 Release: 44,400 cfs

Oahe Dam  
 Pool Elevation: 1616.82 ft-msl  
 24 hr change: 0.08'  
 Inflow: 67,000 cfs  
 Release: 44,100 cfs

Big Bend Dam  
 Pool Elevation: 1420.06 ft-msl  
 24 hr change: -0.03  
 Inflow: 44,000 cfs  
 Release: 43,200 cfs

Fort Randall Dam  
 Pool Elevation: 1356.07 ft-msl  
 24 hr change: 0.00'  
 Inflow: 52,000 cfs  
 Release: 54,200 cfs

Gavin's Point Dam  
 Pool Elevation: 1205.39 ft-msl  
 24 hr change: -0.11'  
 Inflow: 53,000 cfs  
 Release: 56,500 cfs

### 4.a Emergency Operations:

4.a.1 Nebraska: Anticipate request for technical assistance from the Governor of the State of NE. The North Platte River at North Platte, NE is currently in major flood stage.

4.a.2 Montana - No Change

4.a.3 North Dakota - Anticipate request for technical assistance from the State of ND for the Cities of Bismarck and Mandan due to the greatly increased flows from Garrison Dam and the 5' increase in stage.

4.b Funding:

- \* Total Code 200 Funding received to date for this event: \$1,762,425
- \* Total Code 200 Funding revoked to date for this event: \$2,600,000
- \* Class 219 - Emergency Operations - Direct Assistance - \$250,000 - WAD and FAD received 3/14/2011
- \* Class 219 - Emergency Operations - Direct Assistance - \$3.825M - WAD received 03/15/11.
- FAD received 03/16/11.
- \* Class 219 - Additional Funds Request on 24 March - \$231,425 - WAD and FAD received 03/24/11.
- \* Class 219 - Emergency Operations - Direct Assistance - \$2.5M revoked - 4/13/11
- \* Class 219 - Emergency Operations - Direct Assistance - \$100k revoked - 4/22/11
- \* Class 210 - Response Operations - Alabama Tornadoes - \$56k - MIPR - 4/30/11
- \* Class 210 - Response Operations - Alabama Tornadoes - \$25k - Request and received for EOC Operations and deployments on 4/30/11

4.c Number of Personnel Supporting EOC Operations: 5

4.d EOC Activation - Level II - Monitoring

\*\*\*\*\*

\*\*ADVANCE MEASURES\*\*

1. Situation:

Currently monitoring high snow water equivalents in WY and MT.

2. Advance Measures:

2.a.2 WYOMING - See above.

2.b Funding:

- \* Total Code 500 Funding received to date: \$677,904
- \* Class 520 Funding - Advance Measures - Technical assistance - \$100K. WAD and FAD received on 3/2/11.
- \* Class 52A Additional Request for Funding - Advance Measures - Technical assistance - \$100K. WAD and FAD received on 3/10/11.
- \* Class 520 Additional Request for Funding - Advance Measures - Technical assistance - \$101,640. WAD and FAD received on 3/24/11.
- \* Class 519 Funding - Advance Measures - Direct Assistance - \$376,264. WAD and FAD received on 3/28/11.
- \* Class 520 Funding - Advance Measures - Technical assistance - \$110k - amended from \$180k to \$50k per NWD direction. Will be amended now to \$110K to account for the 3 PIRs that have been requested.

2.c Number of Personnel Supporting Advance Measures EOC Operations: 15

2.d EOC Activation - Level II - Monitoring

3. SharePoint:

Here is the link to the NWO EM SharePoint site - <https://kme.usace.army.mil/CoPs/Emergency-Management/NWD/NWO/default.aspx>  
 Make sure to visit the Flood Fight Portal (located on left side of the page) where we will be updating the situation on a regular basis.

Kimberly S. Thomas  
 Chief, Readiness Branch  
 U.S. Army Corps of Engineers - Omaha District

1616 Capitol Ave., Ste 9000  
Omaha, NE 68102  
[REDACTED] Office  
[REDACTED] Blackberry  
[REDACTED]@usace.army.mil

Classification: UNCLASSIFIED  
Caveats: FOUO

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[REDACTED] NWO

**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 4:39 PM  
**To:** Farhat, Jody S NWD02; Quinn, Kevin R NWO; Thomas, Kimberly S NWO  
**Cc:** [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
**Subject:** RE: URGENT: Riverwatch Daily --final (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

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**Sent:** Friday, May 13, 2011 4:25 PM  
**To:** Quinn, Kevin R NWO; [REDACTED] NWO; Thomas, Kimberly S NWO  
**Cc:** [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
**Subject:** RE: URGENT: Riverwatch Daily --final (UNCLASSIFIED)

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Jody Farhat, P.E.  
Chief, Missouri River Basin Water Management

jody.s.farhat@usace.army.mil  
Office: 402-996-3840

-----Original Message-----

**From:** Quinn, Kevin R NWO  
**Sent:** Friday, May 13, 2011 4:08 PM  
**To:** Farhat, Jody S NWD02; [REDACTED] NWO; Thomas, Kimberly S NWO  
**Cc:** [REDACTED] NWO; [REDACTED] NWO  
**Subject:** URGENT: Riverwatch Daily --final (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

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Cc: [REDACTED] NWO; Quinn, Kevin R NWO  
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[REDACTED]

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From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 2:01 PM  
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Cc: [REDACTED] NWO; Quinn, Kevin R NWO  
Subject: FW: Riverwatch Daily draft format (UNCLASSIFIED)

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All,

Please take a quick look at this to be used as the daily RiverWatch bulletin and provide comments.

Thanks,

[REDACTED]

[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000



Omaha, NE 68102  
[REDACTED] Office  
[REDACTED] Blackberry  
[REDACTED]@usace.army.mil

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Cc: CENWD-EOC NWD; [REDACTED] NWO; [REDACTED] HQ02; [REDACTED] NWK  
Subject: Flood Update #62 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
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**\*\*EMERGENCY OPERATIONS\*\***

1. Situation:  
USACE Omaha District received a request for Advanced Measure Direct Assistance for the communities of Elk Mountain, Medicine Bow, and Saratoga from the State of Wyoming on 09 May 2011.

All Missouri Mainstem Dams(Ft. Peck, Garrison, Oahe, Ft. Randall, and Gavins), with the exception of Big Bend, are passing water through either their spillway, flood tunnels, or outlet works in addition to the water flowing through the powerhouses.

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The day 1 QPF (700 hours Thursday to 700 hours Friday) Lingering storms could bring 0.25"-0.75" of rain to western Nebraska, southern South Dakota and the southeast corner of the District.

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Attached is a spreadsheet with the high and low temperatures for the next 7 days at Aberdeen, SD; Bismarck, ND; Jamestown, ND; Glasgow, MT; and Havre, MT. High temperatures in the Dakotas and Montana will be in the 50s and 60s. Low temperatures will be near 40 degrees.

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### 3a. River/Current Stage/Forecast Stage/Date of Peak:

#### North Dakota

- \* James River at Jamestown/11.7'(1,900 cfs)//steady
- \* James River at LaMoure/11.98'/12.1'/May 13

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- \* North Platte River at North Platte/6.58'/6.6'/May 13
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- \* Missouri River at NE City/19.36'/19.6'/May 13
- \* Missouri River at Brownville/34.9'/35.3'/May 13
- \* Missouri River at Rulo/18.6'/19'/May 13

### 3.b Reservoirs:

Pipestem Reservoir rose 0.1' yesterday to elevation 1485.99 ft-msl. Yesterday's daily inflows were 656 cfs. 200 cfs are being released. 68.5% of the flood pool is occupied.

Jamestown Reservoir fell 0.1' yesterday to elevation 1450.8 ft-msl. The pool is near its crest. Yesterday's daily inflows were near 1,720 cfs. Releases were 1,600 cfs. The combined release is 1,800 cfs. 78.8% of the flood pool is occupied.

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Pool Elevation: 2241.81 ft-msl

24 hr change: 0.16'  
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Pool Elevation: 1848.51 ft-msl  
24 hr change: 0.03'  
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#### 4.a.2 Montana - No Change

4.a.3 North Dakota - Anticipate request for technical assistance from the State of ND for the Cities of Bismarck and Mandan due to the greatly increased flows from Garrison Dam and the 5' increase in stage.

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- \* Total Code 200 Funding received to date for this event: \$1,762,425
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- \* Class 210 - Response Operations - Alabama Tornadoes - \$56k - MIPR - 4/30/11

\* Class 210 - Response Operations - Alabama Tornadoes - \$25k - Request and received for EOC Operations and deployments on 4/30/11

4.c Number of Personnel Supporting EOC Operations: 5

4.d EOC Activation - Level II - Monitoring

\*\*\*\*\*

**\*\*ADVANCE MEASURES\*\***

**1. Situation:**

Currently monitoring high snow water equivalents in WY and MT.

**2. Advance Measures:**

2.a.2 WYOMING - See above.

**2.b Funding:**

\* Total Code 500 Funding received to date: \$677,904

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**3. SharePoint:**

Here is the link to the NWO EM SharePoint site - <https://kme.usace.army.mil/CoPs/Emergency-Management/NWD/NWO/default.aspx>

Make sure to visit the Flood Fight Portal (located on left side of the page) where we will be updating the situation on a regular basis.

Kimberly S. Thomas  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102  
402-995-2448 Office  
402-490-5099 Blackberry  
[kimberly.s.thomas@usace.army.mil](mailto:kimberly.s.thomas@usace.army.mil)

Classification: UNCLASSIFIED

Caveats: FOUO

Classification: UNCLASSIFIED

[REDACTED] NWO

**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 4:37 PM  
**To:** Fong, Cecily S.  
**Cc:** Farhat, Jody S NWD02; Quinn, Kevin R NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
**Subject:** Missouri River Watch Daily Bulletin (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Cecily,  
Kevin Quinn has today's bulletin almost ready to go, we just completed final reviews so you should see it soon. As far as distribution goes, here are the agencies that I want to ensure are included. If you have others to include that's fine.

I think the attendees from last night's meeting would be a great start. In addition I'd like to add the following:

- Oliver County EM (Sandy Olin)
- McLean County EM (Richard Johnson)
- Sioux County EM (Frank Landeis)
- Mercer County EM (Carmen Reed)
- Burleigh and Morton Counties should be on the attendee list.
- National Weather Service (Allen Schlag)
- I'd go ahead and leave all your media contacts on the list.
- Whomever you want in the State EOC is fine. Amy Anton, Kathleen Donahue, and Greg need to receive this.
- ND Congressional Delegates/State Representatives need to be included. I can provide a list but I'm assuming you have them.
- ND State Water Commission (Todd Sando, Bruce Engelhardt, Kelly Casteel)
- ND Game & Fish Department
- ND Health Department and any other state agencies you recommend?
- I've included the Corps of Engineers folks who also need to see this distribution in the Cc list for this message.

If you need additional information please give me a call. Thanks for your assistance!

[REDACTED]  
P.S. My cell number is [REDACTED]

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

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Sent: Friday, May 13, 2011 4:08 PM  
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Cc: Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO  
Subject: URGENT: Riverwatch Daily --final (UNCLASSIFIED)  
Attachments: Riverwatch Daily.doc

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[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102

[REDACTED] Office  
[REDACTED] Blackberry  
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# **Riverwatch Daily: Garrison and Oahe Dams**

**Update #1**

**May 13, 2011**

**OMAHA, Neb.** – Due to high runoff from the far-above-normal plains and mountain snowmelt, the U.S. Army Corps of Engineers is evacuating large volumes of water from Garrison Dam in Riverdale, N.D. and Oahe Dam near Pierre, S.D.

In expectation of continued high runoff, the U.S. Army Corps of Engineers will release a daily bulletin detailing releases and levels for both dams. Below are the May 13, 2011 statistics for the two dams:

## **Daily Information Update**

### **Garrison Dam and Lake Sakakawea:**

- Midnight reservoir level – 1848.8 feet mean sea level
- Yesterday's Reservoir Inflow – 100,000 cubic feet per second (cfs)
- Current Reservoir Release – 46,000 cfs
- Annual Flood control and multiple use zone – El. 1,837.5 to 1,850 msl
- Exclusive flood control zone- El. 1,850-1,854 msl
- Top of spillway gates - 1,854 feet msl
- 6 a.m. River Stage at Bismarck-12.3 feet (Flood stage at Bismarck-16.0 feet)
- Planned scheduled releases
  - Saturday May 14: increases to 48,000 at 8 am
  - Sunday, May 15: Hold 48,000 cfs
  - Monday, May 16: increase to 50,000 cfs at 8 am.

### **Oahe Dam and Lake:**

- Midnight reservoir level – 1616.8 feet msl
- Yesterday's Reservoir Inflow – 53,000 cfs
- Yesterday's Reservoir Release – 44,400 cfs
- 6 am river stage at Pierre 10.4 feet (Flood stage 15.0)
- Annual Flood control and multiple use zone – El. 1607.5 to 1617.0 feet msl
- Exclusive flood control zone – El. 1617.0 to 1620.0 feet msl
- Top of spillway gates: - 1620.0 feet msl
- Planned scheduled releases:
  - Hold 56,000 cfs through Monday

Garrison Dam is a 210-foot high rolled earth embankment. Discharges are normally passed through five power tunnels having a combined discharge capacity of 41,000 cfs, and three flood tunnels having a combined discharge capacity of 98,000 cfs. They may also be passed through the spillway when necessary. The spillway is equipped with 28 tainter gates and has a maximum discharge capacity of 660,000 cfs at the top of its flood control zone. NOTE: The Corps has never previously used the spillway for releases. The Corps anticipate that all releases this year will go through the power plant and regulating tunnels.

Oahe Dam is a 245-foot high rolled earth embankment. Discharges are normally passed through seven power tunnels having a combined discharge capacity of 56,000 cfs, and six flood tunnels having a combined discharge capacity of 111,000 cfs. They may also be passed through the spillway when necessary. The spillway is equipped with eight tainter gates and has a maximum discharge capacity of 80,000 cfs at the top of its flood control zone. NOTE: The Corps has never previously used the spillway for releases. The Corps anticipates that all releases this year will be made through the power plant and outlet tunnels.

Daily bulletin updates are available from the Corps' website:  
<https://www.nwo.usace.army.mil/>

Northwestern Division's water management website for the most up to date information:  
<http://www.nwd-mr.usace.army.mil/rcc/index.html>

USACE CONTACT:

**NWO**

**From:** Quinn, Kevin R NWO  
**Sent:** Friday, May 13, 2011 2:31 PM  
**To:** [REDACTED] NWO; Farhat, Jody S NWD02  
**Cc:** [REDACTED] NWO  
**Subject:** RE: Riverwatch Daily draft format (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I'll revise, [REDACTED]. Sending it through Cecily Fong is no problem as long as we know it will go out each day to all parties targeted. We could additionally distribute through Vocus - at worst, some outlets would get two copies. kq

-----Original Message-----

**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 2:23 PM  
**To:** [REDACTED] NWO; Farhat, Jody S NWD02  
**Cc:** [REDACTED] NWO; Quinn, Kevin R NWO  
**Subject:** RE: Riverwatch Daily draft format (UNCLASSIFIED)

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**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 2:01 PM  
**To:** Farhat, Jody S NWD02; [REDACTED] NWO  
**Cc:** [REDACTED] NWO; Quinn, Kevin R NWO  
**Subject:** FW: Riverwatch Daily draft format (UNCLASSIFIED)

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All,

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Thanks,  
[REDACTED]

[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102

[REDACTED] Office

[REDACTED] Blackberry

[REDACTED]@usace.army.mil

-----Original Message-----

From: Quinn, Kevin R NWO

Sent: Friday, May 13, 2011 1:52 PM

To: [REDACTED] NWO

Subject: Riverwatch Daily draft format (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: FOUO

Please look over draft and get back to me with revisions. Thanks kq

-----Original Message-----

From: [REDACTED] NWO

Sent: Thursday, May 12, 2011 8:53 PM

To: DLL-CENWO-EOC CMT-ALL

Cc: CENWD-EOC N [REDACTED] NWO; [REDACTED] HQ02; K [REDACTED] NWK

Subject: Flood Update #62 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: FOUO

**\*\*EMERGENCY OPERATIONS\*\***

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All Missouri Mainstem Dams(Ft. Peck, Garrison, Oahe, Ft. Randall, and Gavins), with the exception of Big Bend, are passing water through either their spillway, flood tunnels, or outlet works in addition to the water flowing through the powerhouses.

Mountain snowpack on May 12, 2011 is 130% of the 30-year peak historical average. The Upper Missouri is 126%, the Upper Yellowstone is 135%, the Upper North Platte is 155% and the South Platte Basin is 140% of the 30-year peak historical average.

Participated in collaboration call with the Bureau of Reclamation and the National Weather Service to discuss the flood situation on the North Platte River Basin. Most probable forecast indicates that the following river stretches will need to pass the following discharges: Alcova to Glendo(6000 cfs), Glendo to Whalen(9000 cfs), Whalen to the State Line(9000 cfs), State Line to Lake McConaughy(9000 cfs), and North Platte(5500 cfs). USACE, BOR, and NWS will be meeting with both the State of WY and State of NE tomorrow to share this information. It is believed that they current channel capacity from the State Line through North Platte will not be able to handle the flows. The discharge at North Platte is currently 2500 cfs with no additional capacity. The Bureau of Reclamation's Glendo Reservoir is at elevation 4627.7 feet msl with 84% of the multipurpose pool occupied. The USBR May 1 forecast is for over 2 million acre-feet of runoff into the North Platte River Basin, 287% of normal.

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Alabama Tornadoes: [REDACTED] is currently deployed to support the debris SME and Eileen Williamson is deployed to provide PAO support to MVS.

## 2. Weather:

### 2a. Past Precipitation:

Much of western and central Nebraska received over 1" of rainfall with other parts of Nebraska seeing up to 0.5" of rain. The Denver area had 1"-2" of rain. The lower Nishnabotna basin received 1"-3" of rain with heavier amounts falling just outside the basin. Western Iowa and northeast Nebraska had amounts up to 1". See attached.

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The day 1 QPF (700 hours Thursday to 700 hours Friday) Lingering storms could bring 0.25"-0.75" of rain to western Nebraska, southern South Dakota and the southeast corner of the District.

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### 2c. Temperatures:

Attached is a spreadsheet with the high and low temperatures for the next 7 days at Aberdeen, SD; Bismarck, ND; Jamestown, ND; Glasgow, MT; and Havre, MT. High temperatures in the Dakotas and Montana will be in the 50s and 60s. Low temperatures will be near 40 degrees.

## 3. Hydro Status:

### 3a. River/Current Stage/Forecast Stage/Date of Peak:

#### North Dakota

- \* James River at Jamestown/11.7'/(1,900 cfs)//steady
- \* James River at LaMoure/11.98'/12.1'/May 13

#### Nebraska

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Pipestem Reservoir rose 0.1' yesterday to elevation 1485.99 ft-msl. Yesterday's daily inflows were 656 cfs. 200 cfs are being released. 68.5% of the flood pool is occupied.

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Pool Elevation: 2241.81 ft-msl  
24 hr change: 0.16'



Inflow: 40,000 cfs  
Release: 20,100 cfs

Garrison Dam  
Pool Elevation: 1848.51 ft-msl  
24 hr change: 0.03'  
Inflow: 60,000 cfs  
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Oahe Dam  
Pool Elevation: 1616.82 ft-msl  
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Pool Elevation: 1420.06 ft-msl  
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24 hr change: -0.11'  
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4.a.1 Nebraska: Anticipate request for technical assistance from the Governor of the State of NE. The North Platte River at North Platte, NE is currently in major flood stage.

4.a.2 Montana - No Change

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- \* Total Code 200 Funding received to date for this event: \$1,762,425
- \* Total Code 200 Funding revoked to date for this event: \$2,600,000
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\*\*\*\*\*

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Currently monitoring high snow water equivalents in WY and MT.

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Make sure to visit the Flood Fight Portal (located on left side of the page) where we will be updating the situation on a regular basis.

████████████████████  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102

████████████████████ Office  
████████████████████ Blackberry  
████████████████████ [████████@usace.army.mil](mailto:████████@usace.army.mil)

Classification: UNCLASSIFIED  
Caveats: FOUO

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[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 2:23 PM  
To: Thomas, Kimberly S NWO; Farhat, Jody S NWD02  
Cc: [REDACTED] NWO; Quinn, Kevin R NWO  
Subject: RE: Riverwatch Daily draft format (UNCLASSIFIED)  
Attachments: Riverwatch Daily (2).doc

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Chief, Readiness Branch  
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[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102

[REDACTED] Office  
[REDACTED] Blackberry  
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[REDACTED] NWO

**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 2:06 PM  
**To:** [REDACTED] NWD  
**Cc:** Blechinger, Erik T NWO; Farhat, Jody S NWD02; [REDACTED] NWO  
**Subject:** Baucus followup.doc (UNCLASSIFIED)  
**Attachments:** Baucus followup.doc

Classification: UNCLASSIFIED  
Caveats: NONE

Please find attached, our response letter for Senator Baucus.

Thank you,  
Susie

[REDACTED]  
Branch Administrative Assistant  
U.S. Army Corps of Engineers  
Planning Branch  
1616 Capitol Ave  
Omaha, NE 68102  
Phone: [REDACTED]

Classification: UNCLASSIFIED  
Caveats: NONE





DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, OMAHA DISTRICT  
1616 CAPITOL AVENUE  
OMAHA NE 68102-4901

REPLY TO  
ATTENTION OF

Honorable Max Baucus  
United States Senate  
Washington, DC

Dear Senator Baucus:

This is in response to your letter dated April 4, 2011, following the Transportation and Infrastructure Subcommittee to the Environment and Public Works Committee. You submitted additional questions regarding projected flooding in Montana and the USACE (U.S. Army Corps of Engineers) response efforts; levee accreditation in floodplains, especially in light of recent FEMA map modernization; the Missouri River Authorized Purposes Study; the Intake Diversion Dam; and, the St. Mary Diversion and Conveyance Works. Your question in its entirety followed by my response is below.

MONTANA FLOODING QUESTIONS:

Q1. Forecasts indicated Montana faces the likelihood of a high flood risk this spring. The Milk River Basin has surpassed its record snowfall amount with approximately 105 inches for this year. The current snow water equivalent maps are showing areas of 8 to 14" of snow water equivalent in the areas between Havre and Malta and areas of 1 to 6" of snow water equivalent between Malta and Wolf Point. Snow water equivalent is the amount of water in the current snowpack. The Corps has stated that given this data, there is a good chance Montana will possibly see record flooding this Spring. Can you tell me what steps the Corps is taking to prepare for this flood risk?

A1. In early February 2011, the USACE Omaha District initiated coordination meetings with the State of Montana to discuss USACE PL 84-99 Authorities and the States' potential flood risks. Since the meeting, USACE Omaha District has provided technical assistance to numerous communities in the entire State to evaluate the overall flood threat. Due to the record snowpack in the Milk River basin, USACE designed and constructed a temporary levee in Nashua, MT to reduce the overall flood risk to the community. The USACE Omaha District also provided pumps and sandbags to various communities during the Plains spring runoff event. The USACE Omaha District has also provided technical assistance to numerous Tribes including Blackfeet Nation, Fort Belknap, and Rocky Boys.

Much above normal runoff is also occurring in the upper Missouri River basin. Mountain snowpack in the reach above Fort Peck appears to have crested in early May at 141 percent of the normal peak accumulation. Fort Peck reservoir experienced the highest end-of-April elevation since 1996 and is forecast to reach levels not seen since the record runoff year in

1997. Releases are being scheduled to provide an orderly evacuation of stored flood water through the remainder of the year.

Q2. Do you need additional resources to prevent the loss of life and property should these floods turn out as bad as anticipated?

A2. USACE will continue to monitor the flood risks for critical public infrastructure for the State of Montana and mitigate those risks as necessary. USACE Omaha District has been provided the necessary resources to date to assist the State during this record flood season. Thank you for your continued support and assistance throughout this event.

#### LEEVE ACCREDITATION QUESTIONS:

Q1. In 2008, the Army Corps changed its policy regarding levee certification and discontinued certifying federally-constructed, non-federally operated levees. This has occurred at the same time that FEMA has undertaken a flood map modernization program, resulting in hardship for small communities in my home state of Montana that can't afford third party levee accreditation. In many cases the Corps has built the levee, has inspected the levee for years, and now refuses to provide accreditation for the levee. Secretary Darcy, in your testimony you note the Corps is pursuing a \$50 million comprehensive levee safety initiative. How does it apply to small cash-strapped communities who suddenly find themselves in a floodplain for the first time and can't afford levee accreditation?

A1. To be answered by HQ USACE.

Q2. During the hearing you stated you would review the Corps of engineers' policy on levee accreditation, can you tell me what the timeline for this review is?

A2. To be answered by HQ USACE.

Q3. How soon can my constituents expect to receive a summary of your findings and an indication of the Corps' policy going forward?

A3. To be answered by HQ USACE.

Q4. What steps does the Corps take to ease the financial burden FEMA's map modernization places on small communities?

A4. To be answered by HQ USACE.

Q5. The Corps and FEMA need to work together on these levee certifications. I know that the Corps and FEMA leadership meet quarterly to coordinate policies. What have you learned from these meetings and what steps has the Corps taken in the past year to improve coordination with FEMA? For example, how does the Corps coordinate the Periodic Inspections it routinely conducts on levees with FEMA's map modernization program?

A5. To be answered by HQ USACE.

Q6. Is the Corps' application of this new policy not to conduct levee accreditation being applied uniformly?

A6. To be answered by HQ USACE.

#### MISSOURI RIVER AUTHORIZED PURPOSES STUDY:

Q1. As you know, Congress appropriated \$25 million for the Missouri River Authorized Purposes Study to review the project purposes established by the Flood Control Act of 1944. The Study is supposed to analyze the eight authorized purposes in light of current needs to determine if changes to the existing purposes and existing Federal water resource infrastructure may be warranted.

To me, it would seem like a waste of money to do half a report with the scoping portion has been released in draft form just this month. Can I get your agreement that you will not support recent Missouri delegation efforts to zero-fund the Study?

A1. Congress authorized \$25 million for the Missouri River Authorized Purposes Study in Section 108 of the Omnibus Appropriations Act of 2009 and \$7.351 million has been appropriated to date. USACE recently completed the scoping process and will be issuing a final report in July that summarizes the approximately 1200 scoping comments received and contains the USACE response regarding how those comments would be addressed in the study. Section 1481 of the DOD and Full-Year Continuing Appropriations Act of 2011 specifically prohibits USACE from using FY11 funds to continue this study. Therefore, funds carried over from FY10 will be used to complete the scoping summary report and organize study information into a framework that would allow the study to resume in an efficient manner should funding be appropriated in the future.

#### INTAKE DIVERSION DAM QUESTIONS:

Q1. Secretary Darcy, in your testimony you mention "...\$73 million for ongoing work under the Missouri River Fish and Wildlife Recovery program to construct shallow water habitat and undertake other activities to recover and protect Federally-listed species, such as the

pallid sturgeon. Can you tell me how does that apply to the Intake Diversion Dam project in Montana?

A1. Intake is funded directly from Missouri River Fish and Wildlife Recovery Program funds. The current construction project for Phase 1 -- the headwork's and fish screens at the irrigation canal -- is progressing and on schedule for completion in March 2012. Our FY11 Work plan, built around the President's budget of \$78.4M, allotted \$3.5M for Intake. The \$73M mentioned in the question is the President's budget number for FY12. There is additional funding for fish monitoring in the Yellowstone and Missouri River confluence area. Previously, Intake was funded at \$2.4M in FY2009 and \$19.6M in FY2010, which is reflective of the additional costs related to the phase one construction contract award.

Q2. The Corps put Phase 2 of the project on hold when the project's cost increased because it was determined that different, more expensive granite was needed for the riverbed ramp. Was this foreseeable that a more expensive material would ultimately be needed?

A2. Phase 2 has not been put on hold. Rather, award of Phase 2 construction has been delayed due to advancement of design calling into question underlying assumptions made about the ramp design during the feasibility analysis of alternatives and early concept design. Work on the project continues with refinement of ramp passage design and exploration of other alternatives to achieve passage. It was determined that more durable rock was needed, but the sensitivity of this determination on overall project cost was not adequately captured in the original project cost projections. With the advancement of the design, the requirements and cost are continuing to be refined.

Q3. Is the Corps taking steps to prevent future cost overruns?

A3. USACE does not consider the identified potential cost increases to be cost overruns, as the initial estimate was developed based on a minimal level of effort due to the need to move quickly to prevent extirpation of the target fish species. That minimal detail level did not include constructability and design details that allowed for a significant level of refinement with overall cost. In the early phases of a traditional feasibility process, the objective is for the cost estimates to represent as complete and as accurate a picture as is practicable, which necessitates a greater level of effort than was originally applied to the Intake project. In a traditional feasibility study approach, the initial cost estimate from the "Feasibility phase" is further refined during the "Preconstruction, Engineering and Design (PED) phase", where the outcome provides the technical basis for the plans and specifications and serves as a summary of the final design and cost. Refinements in the cost estimate as design advances are not uncommon, and USACE includes cost and performance risk analysis as it moves forward in design efforts. As this project progresses, additional rigor and granularity with estimates will support potential design solutions.

ST. MARY DIVERSION AND CONVEYANCE WORKS QUESTIONS:

Q1. Secretary Darcy, as you know, I managed to get a \$153 million authorization for the Corps to work with the Bureau of Reclamation on the St. Mary Diversion works, a project that diverts water from the Milk River to systems across northern Montana. Later, Senator Tester and I followed up with a \$500,000 appropriation to the Bureau of Reclamation to start the process.

Can you tell me what is being done on this? Can the Corps and the Bureau of Reclamation work together to undertake the cooperative agreement between the two agencies?

A1. USACE has received no federal appropriations to work on the St. Mary Diversion and Conveyance Works Project since passage of the Water Resources Development Act of 2007 (WRDA 2007) which authorized rehabilitation and construction of the project (Section 5103, WRDA 2007). It is the understanding of USACE that the Bureau of Reclamation has received some federal appropriations to move the project forward. However, the Bureau of Reclamation has not approached the Corps about the possibility of providing technical assistance with the project through the Economy Act or any other cooperative agreement. Since the Corps is a project funded agency, and no federal appropriation has been provided, very minimal Corps resources have been expended researching or reviewing the St. Mary Diversion and Conveyance Works Project, to date. My office has directed that no further expenditure of limited Corps resources shall be permitted on this project until federal appropriations are received or the Bureau of Reclamation requests the Corps to partner with them utilizing Bureau funding.

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 2:01 PM  
To: Farhat, Jody S NWD02; [REDACTED] NWO  
Cc: [REDACTED] NWO; Quinn, Kevin R NWO  
Subject: FW: Riverwatch Daily draft format (UNCLASSIFIED)  
Attachments: Riverwatch Daily.doc

Classification: UNCLASSIFIED  
Caveats: FOUO

All,

Please take a quick look at this to be used as the daily RiverWatch bulletin and provide comments.

Thanks,

[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102  
[REDACTED] Office  
[REDACTED] Blackberry  
[REDACTED]@usace.army.mil

-----Original Message-----

From: Quinn, Kevin R NWO  
Sent: Friday, May 13, 2011 1:52 PM  
To: Thomas, Kimberly S NWO  
Subject: Riverwatch Daily draft format (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Please look over draft and get back to me with revisions. Thanks kq

-----Original Message-----

From: Thomas, Kimberly S NWO  
Sent: Thursday, May 12, 2011 8:53 PM  
To: DLL-CENWO-EOC CMT-ALL  
Cc: CENWD-EOC NWD; [REDACTED] NWO; [REDACTED] HQ02; [REDACTED] NWK  
Subject: Flood Update #62 (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

\*\*EMERGENCY OPERATIONS\*\*

1. Situation:  
USACE Omaha District received a request for Advanced Measure Direct Assistance for the communities of Elk Mountain, Medicine Bow, and Saratoga from the State of Wyoming on 09 May 2011.

All Missouri Mainstem Dams (Ft. Peck, Garrison, Oahe, Ft. Randall, and Gavins), with the exception of Big Bend, are passing water through either their spillway, flood tunnels, or outlet works in addition to the water flowing through the powerhouses.

Mountain snowpack on May 12, 2011 is 130% of the 30-year peak historical average. The Upper Missouri is 126%, the Upper Yellowstone is 135%, the Upper North Platte is 155% and the South Platte Basin is 140% of the 30-year peak historical average.

Participated in collaboration call with the Bureau of Reclamation and the National Weather Service to discuss the flood situation on the North Platte River Basin. Most probable forecast indicates that the following river stretches will need to pass the following discharges: Alcova to Glendo (6000 cfs), Glendo to Whalen (9000 cfs), Whalen to the State Line (9000 cfs), State Line to Lake McConaughy (9000 cfs), and North Platte (5500 cfs). USACE, BOR, and NWS will be meeting with both the State of WY and State of NE tomorrow to share this information. It is believed that they current channel capacity from the State Line through North Platte will not be able to handle the flows. The discharge at North Platte is currently 2500 cfs with no additional capacity. The Bureau of Reclamation's Glendo Reservoir is at elevation 4627.7 feet msl with 84% of the multipurpose pool occupied. The USBR May 1 forecast is for over 2 million acre-feet of runoff into the North Platte River Basin, 287% of normal.

Garrison Project Office (ND) is back to 24 hour operation of the Williston pumping plant, due to excessive runoff from snow melt and the recent heavy rains in that area. They are experiencing some challenges with the new diesel pumps and are working those issues with the contractor. The Garrison Project was informed that the Williams County Emergency Manager was going to request assistance from the State EOC. They did not elaborate on the request, but Williston is dealing with multiple issues. They have been dumping their lagoons in order to increase capacity for inflows into their treatment system, their interior drainage systems are overwhelmed and many folks are having issues with water in their basements. The challenges in Williston are compounded by the overwhelming demands from the oil boom in this area. The Garrison project office currently has it under control.

Alabama Tornadoes: [REDACTED] is currently deployed to support the debris SME and Eileen Williamson is deployed to provide PAO support to MVS.

## 2. Weather:

### 2a. Past Precipitation:

Much of western and central Nebraska received over 1" of rainfall with other parts of Nebraska seeing up to 0.5" of rain. The Denver area had 1"-2" of rain. The lower Nishnabotna basin received 1"-3" of rain with heavier amounts falling just outside the basin. Western Iowa and northeast Nebraska had amounts up to 1". See attached.

### 2b. Future Precipitation:

The day 1 QPF (700 hours Thursday to 700 hours Friday) Lingering storms could bring 0.25"-0.75" of rain to western Nebraska, southern South Dakota and the southeast corner of the District.

The day 2 QPF (700 hours Friday to 700 hours Saturday) 0.2"-0.5" of rain/snow possible in central Colorado. Little to no precipitation through much of the District.

The day 3 QPF (from 700 hours Saturday to 700 hours Sunday) 0.2"-0.5" of rain/snow could fall in central Colorado. Little to no precipitation through much of the District.

### 2c. Temperatures:

Attached is a spreadsheet with the high and low temperatures for the next 7 days at Aberdeen, SD; Bismarck, ND; Jamestown, ND; Glasgow, MT; and Havre, MT. High temperatures in the Dakotas and Montana will be in the 50s and 60s. Low temperatures will be near 40 degrees.

### 3. Hydro Status:

#### 3a. River/Current Stage/Forecast Stage/Date of Peak:

##### North Dakota

- \* James River at Jamestown/11.7'(1,900 cfs)//steady
- \* James River at LaMoure/11.98'/12.1'/May 13

##### Nebraska

- \* North Platte River at North Platte/6.58'/6.6'/May 13
- \* Missouri River at Omaha/25.94'/26.1/May 15
- \* Missouri River at NE City/19.36'/19.6/May 13
- \* Missouri River at Brownville/34.9'/35.3'/May 13
- \* Missouri River at Rulo/18.6'/19'/May 13

#### 3.b Reservoirs:

Pipestem Reservoir rose 0.1' yesterday to elevation 1485.99 ft-msl. Yesterday's daily inflows were 656 cfs. 200 cfs are being released. 68.5% of the flood pool is occupied.

Jamestown Reservoir fell 0.1' yesterday to elevation 1450.8 ft-msl. The pool is near its crest. Yesterday's daily inflows were near 1,720 cfs. Releases were 1,600 cfs. The combined release is 1,800 cfs. 78.8% of the flood pool is occupied.

##### Fort Peck Dam

Pool Elevation: 2241.81 ft-msl  
24 hr change: 0.16'  
Inflow: 40,000 cfs  
Release: 20,100 cfs

##### Garrison Dam

Pool Elevation: 1848.51 ft-msl  
24 hr change: 0.03'  
Inflow: 60,000 cfs  
Release: 44,400 cfs

##### Oahe Dam

Pool Elevation: 1616.82 ft-msl  
24 hr change: 0.08'  
Inflow: 67,000 cfs  
Release: 44,100 cfs

##### Big Bend Dam

Pool Elevation: 1420.06 ft-msl  
24 hr change: -0.03  
Inflow: 44,000 cfs  
Release: 43,200 cfs

##### Fort Randall Dam

Pool Elevation: 1356.07 ft-msl  
24 hr change: 0.00'  
Inflow: 52,000 cfs  
Release: 54,200 cfs

##### Gavin's Point Dam

Pool Elevation: 1205.39 ft-msl



24 hr change: -0.11'  
Inflow: 53,000 cfs  
Release: 56,500 cfs

#### 4.a Emergency Operations:

4.a.1 Nebraska: Anticipate request for technical assistance from the Governor of the State of NE. The North Platte River at North Platte, NE is currently in major flood stage.

4.a.2 Montana - No Change

4.a.3 North Dakota - Anticipate request for technical assistance from the State of ND for the Cities of Bismarck and Mandan due to the greatly increased flows from Garrison Dam and the 5' increase in stage.

#### 4.b Funding:

- \* Total Code 200 Funding received to date for this event: \$1,762,425
- \* Total Code 200 Funding revoked to date for this event: \$2,600,000
- \* Class 219 - Emergency Operations - Direct Assistance - \$250,000 - WAD and FAD received 3/14/2011
- \* Class 219 - Emergency Operations - Direct Assistance - \$3.825M - WAD received 03/15/11. FAD received 03/16/11.
- \* Class 219 - Additional Funds Request on 24 March - \$231,425 - WAD and FAD received 03/24/11.
- \* Class 219 - Emergency Operations - Direct Assistance - \$2.5M revoked - 4/13/11
- \* Class 219 - Emergency Operations - Direct Assistance - \$100k revoked - 4/22/11
- \* Class 210 - Response Operations - Alabama Tornadoes - \$56k - MIPR - 4/30/11
- \* Class 210 - Response Operations - Alabama Tornadoes - \$25k - Request and received for EOC Operations and deployments on 4/30/11

4.c Number of Personnel Supporting EOC Operations: 5

4.d EOC Activation - Level II - Monitoring

\*\*\*\*\*

#### \*\*ADVANCE MEASURES\*\*

##### 1. Situation:

Currently monitoring high snow water equivalents in WY and MT.

##### 2. Advance Measures:

2.a.2 WYOMING - See above.

#### 2.b Funding:

- \* Total Code 500 Funding received to date: \$677,904
- \* Class 520 Funding - Advance Measures - Technical assistance - \$100K. WAD and FAD received on 3/2/11.
- \* Class 52A Additional Request for Funding - Advance Measures - Technical assistance - \$100K. WAD and FAD received on 3/10/11.
- \* Class 520 Additional Request for Funding - Advance Measures - Technical assistance - \$101,640. WAD and FAD received on 3/24/11.
- \* Class 519 Funding - Advance Measures - Direct Assistance - \$376,264. WAD and FAD received on 3/28/11.
- \* Class 520 Funding - Advance Measures - Technical assistance - \$110k - amended from \$180k to \$50k per NWD direction. Will be amended now to \$110K to account for the 3 PIRs that have been requested.

2.c Number of Personnel Supporting Advance Measures EOC Operations: 15

2.d EOC Activation - Level II - Monitoring

3. SharePoint:

Here is the link to the NWO EM SharePoint site - <https://kme.usace.army.mil/CoPs/Emergency-Management/NWD/NWO/default.aspx>  
Make sure to visit the Flood Fight Portal (located on left side of the page) where we will be updating the situation on a regular basis.

[REDACTED]  
Chief, Readiness Branch  
U.S. Army Corps of Engineers - Omaha District  
1616 Capitol Ave., Ste 9000  
Omaha, NE 68102  
[REDACTED] Office  
[REDACTED] Blackberry  
[REDACTED]@usace.army.mil

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

**NWO**

**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 11:22 AM  
**To:** [REDACTED] NWD02; Thomas, Kimberly S NWO; Allen Schlag; Farmer, Monique L NWO  
**Cc:** [REDACTED] NWO; [REDACTED] NWO  
**Subject:** Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I've attached my "draft" message that I intend to send to the following invitees for our conference calls.

- Burleigh County EM (Mary Senger)
- Morton County EM (Tammy Lapp-Harris)
- Oliver County EM (Sandy Olin)
- McLean County EM (Richard Johnson)
- Sioux County EM (Frank Landels)
- City of Bismarck EM (Gary Stockert)
- National Weather Service (Allen Schlag)
- ND DES (Amy Anton, Kathleen Donahue, Cecily Fong)
- ND SWC (Bruce Engelhardt, Kelly Casteel)

Please review and provide any suggestions, or comments, regarding the invitees or my message below. I plan to get this out this afternoon so would appreciate any feedback by 1:00 today.  
Thanks!

**"DRAFT MESSAGE":**

All,  
In an attempt to keep agencies along the Missouri River informed about releases from Garrison Dam and potential river stages, we are scheduling routine conference calls. Beginning next week, Monday May 16th, we will conduct a conference call, via a call in number. You are invited to participate in these calls. Currently we are scheduling the calls for Monday, Wednesday and Friday of next week. The calls will be conducted at 11:30 a.m.

During these calls, the Corps of Engineers will provide information on current; reservoir inflows, elevations, and releases. The National Weather Service will also be participating and will provide river stage information, as well as forecast updates, as needed. Following discussion of our release plans, we'd like to hear feedback from the Counties regarding impacts and issues that you're seeing as we increase releases.

As we host the calls next week, we'll discuss the need for continued communication and decide if additional periodic calls are warranted through this time of high releases. Here is the call in information:

USA Toll-Free: [REDACTED]  
ACCESS CODE: [REDACTED]  
Security Code (if requested): [REDACTED]

If you have any additional questions pertaining to the calls, or our operations, feel free to contact Jody Farhat (Chief of Missouri River Water Management Division) or I. Jody can be reached at 402-996-3840. I can be reached at [REDACTED]

[REDACTED]  
[REDACTED]  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 10:42 AM  
To: Farhat, Jody S NWD02; [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02; [REDACTED] NWO; Farmer, Monique L NWO  
Subject: RE: Daily Calls and Press Release (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

I spoke with Greg Wilz (Director of ND DES) this morning. I asked for his opinion on the conference calls. He supports the idea but said that we may not need to do them daily, particularly if we are changing releases every other day. He recommended that we invite the following participants:

- Burleigh County EM (Mary Senger)
- Morton County EM (Tammy Lapp-Harris)
- Oliver County EM (Sandy Olin)
- McLean County EM (Richard Johnson)
- Sioux County EM (Frank Landels)
- City of Bismarck EM (Gary Stockert)
- National Weather Service (Allen Schlag)
- ND DES (Amy Anton, Kathleen Donahue, Cecily Fong)
- ND SWC (Bruce Engelhardt, Kelly Casteel)

Based on my discussions with Greg and a couple of the County EM's they are ok, with calls on Monday, Wednesday and Friday. They did not see a need for a call today or this weekend, as long as the information we conveyed last night has not changed. Based on this feedback, I'd recommend that we do a press release with our release schedule for the weekend and plan for the first call on Monday. I believe it would still be wise to issue a daily "river watch" bulletin/news release to keep the public informed. Even though the State Agencies and County EM's are comfortable with the M-W-F calls, the public is very concerned about what we are doing. I believe that daily bulletins will create some trust and ease some of the concerns and rumors.

Jody, if you have the call in number information I will put together an e-mail message and get it out to all the appropriate parties yet today. If anyone feels that we should revise this plan, please let me know ASAP...

-----Original Message-----

From: [REDACTED] NWO  
Sent: Friday, May 13, 2011 9:43 AM  
To: Farhat, Jody S NWD02; [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02  
Subject: Daily Calls and Press Release (UNCLASSIFIED)


Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I spoke with Allen Schlag with the National Weather Service. He said that he'd be available to participate in a daily call at 11:30 a.m. He also said that the NWS will not be issuing forecasts for the Missouri, but that he would be willing to provide an estimated stage at

Bismarck. He likes the idea of the daily call and is more than willing to assist however he can.

We also visited about potential impacts and releases. He feels that if we need to go to releases higher than 55,000 cfs, we should establish a "target flow" where we would consider cutting back releases from Garrison to stay below that target, if we have a large rain event downstream of Garrison. I told him that we had not yet discussed that internally, but would do so if we need to go above 55,000. He said that he's thinking of a flow target of perhaps 70,000 cfs. Just something to consider at this point. He feels that we would not be damaging any homes until we hit a stage of roughly 14.5 feet, which he believe would be around 70,000 cfs.

I'm still working the logistics of the daily conference call. I'll provide an update on that soon...

  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

---

**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 9:43 AM  
**To:** Farhat, Jody S NWD02; [REDACTED] S NWO  
**Cc:** [REDACTED] NWO; [REDACTED] NWD02; [REDACTED] NWD02  
**Subject:** Daily Calls and Press Release (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I spoke with Allen Schlag with the National Weather Service. He said that he'd be available to participate in a daily call at 11:30 a.m. He also said that the NWS will not be issuing forecasts for the Missouri, but that he would be willing to provide an estimated stage at Bismarck. He likes the idea of the daily call and is more than willing to assist however he can.

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I'm still working the logistics of the daily conference call. I'll provide an update on that soon...

[REDACTED]  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

From: [REDACTED] NWD02  
Sent: Saturday, May 14, 2011 2:16 PM  
To: Farhat, Jody S NWD02; [REDACTED] NWO  
Subject: RE: River Travel Time (UNCLASSIFIED)  
Attachments: GARR - Travel Time.pdf

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED]  
Do you have the one from the current manual? I've attached one that is intended for the updated manual. The graphics need to be cleaned up, but I think you can read it. It probably still needs some verification.

The chart shows the leading edge of the change. For example, it shows Bismarck at about 30 hours. The time to peak and stabilize is somewhat dependant on the magnitude of the increase/decrease and whether there's any peaking, etc. As a rule of thumb, I would use something closer to 2 days for it to stabilize at Bismarck.

[REDACTED]  
-----Original Message-----

From: Farhat, Jody S NWD02  
Sent: Saturday, May 14, 2011 11:18 AM  
To: [REDACTED] NWO; [REDACTED] NWD02  
Subject: RE: River Travel Time (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] - I don't recall either, but I suspect that [REDACTED] can answer the question. I know he has looked at the travel time chart and made a few adjustments.

Jody

-----Original Message-----

From: [REDACTED] NWO  
Sent: Saturday, May 14, 2011 11:09 AM  
To: Farhat, Jody S NWD02  
Subject: River Travel Time (UNCLASSIFIED)

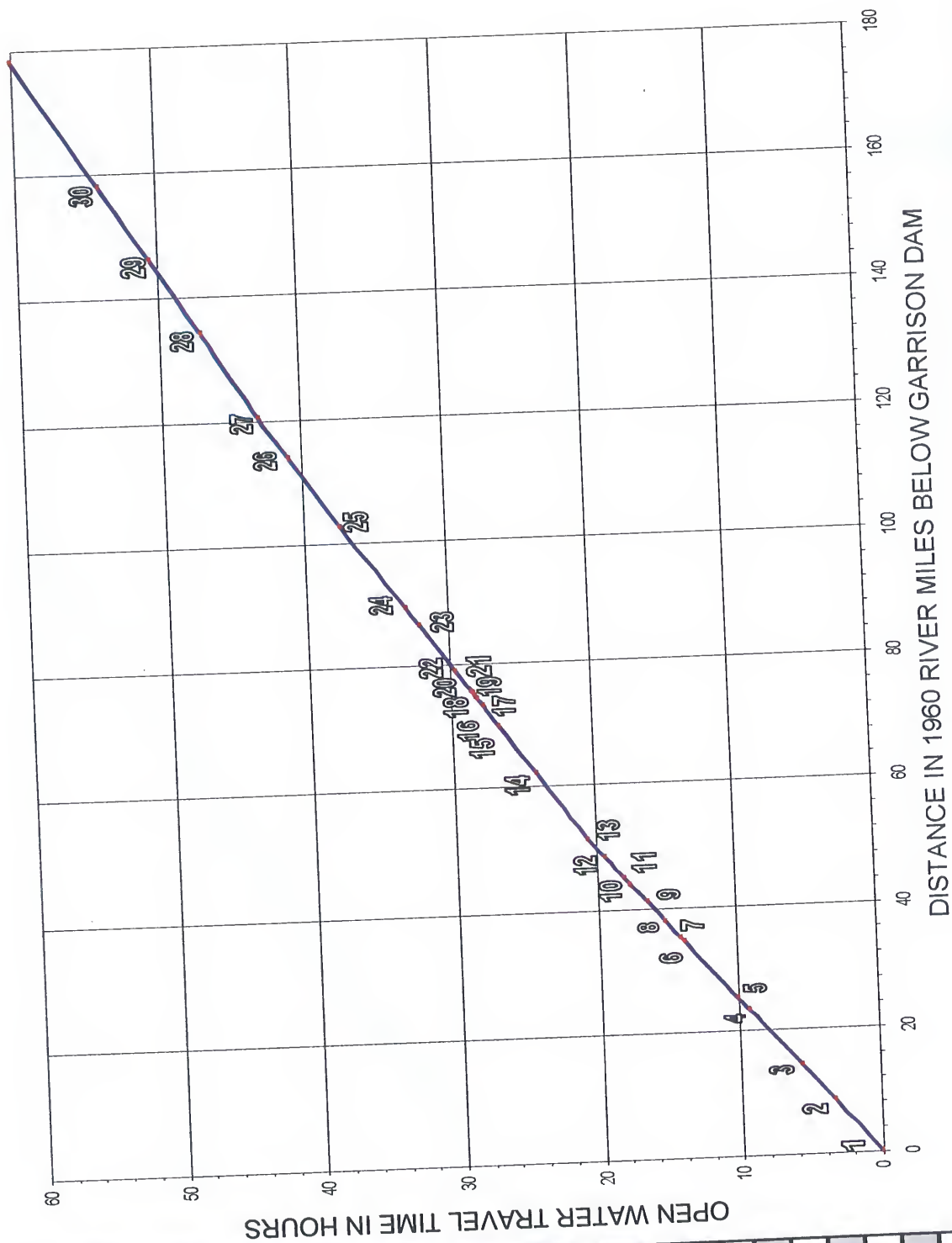
Classification: UNCLASSIFIED  
Caveats: FOUO

Jody,  
Do we have an updated chart for river travel times below Garrison? I have an old one and when discussing it with the NWS, they asked if the chart shows the time for the leading edge of our changes or the time that it would take to peak and stabilize? I did not know, do you?

[REDACTED]  
Operations Project Manager  
Garrison Project



#	Location
1	GARRISON DAM
2	STANTON CABLEWAY
3	STANTON, ND
4	KNIFE RIVER
5	FORT CLARK, ND
6	MANDAN LAKE CREEK
7	HWY 200 BRIDGE, WASHBURN, ND
8	WASHBURN, ND
9	TURTLE CREEK
10	PAINTED WOODS CREEK AND LAKE
11	SANGER, ND
12	WILDWOOD LAKE
13	AERIAL TRANSMISSION LINES, WILTON, ND
14	PRICE, ND
15	SQUARE BUTTE CREEK
16	BISMARCK PIPELINE CROSSING
17	MANDAN, ND
18	BISMARCK-MANDAN INTERSTATE BRIDGE
19	BISMARCK, ND, N.P.R.R. BRIDGE
20	BISMARCK, ND, CITY WATER PLANT GAGE
21	BISMARCK, ND, HWY BRIDGE
22	HEART RIVER
23	HEADWATERS OF OAHÉ RESERVOIR
24	APPLE CREEK
25	HUFF INDIAN VILLAGE
26	FORT RICE
27	CANNONBALL RIVER
28	BEAVER CREEK
29	FORT YATES
30	SOUTH DAKOTA / NORTH DAKOTA STATE LINE



Missouri River Basin  
**Garrison Water Control Manual**  
 Open Water Travel Time  
 Below Garrison Dam, Missouri River  
 U.S. ARMY ENGINEER DIVISION, NORTHWESTERN  
 CORPS OF ENGINEERS, OMAHA, NEBRASKA  
 December 2005

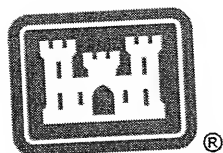
**NWO**

**From:** Quinn, Kevin R NWO  
**Sent:** Saturday, May 14, 2011 1:55 PM  
**To:** cfong@nd.gov; Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] NWO  
**Cc:** Oldham, Margaret NWO  
**Subject:** Riverwatch Daily (UNCLASSIFIED)  
**Attachments:** NR-RIVERWATCH5-11.No2docx.docx

Classification: UNCLASSIFIED  
Caveats: NONE

Riverwatch Daily #2

Classification: UNCLASSIFIED  
Caveats: NONE



U.S. ARMY CORPS OF ENGINEERS

For Immediate Release: July 2, 2011

BUILDING STRONG®

# NEWS RELEASE

Contact: Kevin R. Quinn 402-995-2419  
kevin.r.quinn@usace.army.mil  
Jody Farhat 402-996-3840

## Riverwatch Daily – Garrison and Oahe Dams

### Update #2

**OMAHA, Neb.** – Due to high runoff from the far-above-normal plains and mountain snowmelt, the U.S. Army Corps of Engineers is evacuating large volumes of water from Garrison Dam in Riverdale, N.D. and Oahe Dam near Pierre, S.D.

In expectation of continued high runoff, the U.S. Army Corps of Engineers will release a daily bulletin detailing releases and levels for both dams. Below are the May 14, 2011 statistics for the two dams:

#### Daily Information Update

##### **Garrison Dam and Lake Sakakawea:**

- Midnight reservoir level – 1849.0 feet mean sea level
- Yesterday's Reservoir Inflow – 102,000 cubic feet per second (cfs)
- Current Reservoir Release – 48,000 cfs
- Annual Flood control and multiple use zone – El. 1,837.5 to 1,850 msl
- Exclusive flood control zone – El. 1,850-1,854 msl
- Top of spillway gates - 1,854 feet msl
- 6 a.m. River Stage at Bismarck-12.4 feet (Flood stage at Bismarck-16.0 feet)
- Planned scheduled releases
  - Sunday, May 15: Hold 48,000 cfs
  - Monday, May 16: increase to 50,000 cfs at 8 am.

##### **Oahe Dam and Lake:**

- Midnight reservoir level – 1616.9 feet msl
- Yesterday's Reservoir Inflow – 55,000 cfs
- Yesterday's Reservoir Release – 49,100 cfs
- 6 am river stage at Pierre 11.2 feet (Flood stage 15.0)
- Annual Flood control and multiple use zone – El. 1607.5 to 1617.0 feet msl
- Exclusive flood control zone – El. 1617.0 to 1620.0 feet msl
- Top of spillway gates: - 1620.0 feet msl
- Planned scheduled releases:
  - Hold 56,000 cfs through Monday
  - Actual releases may not equal scheduled releases because Oahe is being used to follow power loads.

Garrison Dam is a 210-foot high rolled earth embankment. Discharges are normally passed through five power tunnels having a combined discharge capacity of 41,000 cfs, and three flood tunnels having a combined discharge capacity of 98,000 cfs. They may also be passed through the spillway when necessary. The spillway is equipped with 28 tainter gates and has a maximum discharge capacity of 660,000 cfs at the top of its flood control zone. NOTE: The Corps has never previously used the spillway for releases. The Corps anticipates that all releases this year will go through the power plant and regulating tunnels.

(more)

[Type text]

Oahe Dam is a 245-foot high rolled earth embankment. Discharges are normally passed through seven power tunnels having a combined discharge capacity of 56,000 cfs, and six flood tunnels having a combined discharge capacity of 111,000 cfs. They may also be passed through the spillway when necessary. The spillway is equipped with eight tainter gates and has a maximum discharge capacity of 80,000 cfs at the top of its flood control zone. NOTE: The Corps has never previously used the spillway for releases. The Corps anticipates that all releases this year will be made through the power plant and outlet tunnels.

Daily bulletin updates are available from the Corps' website: <http://www.nwo.usace.army.mil/>

Northwestern Division's water management website for the most up to date information:  
<http://www.nwd-mr.usace.army.mil/rcc/index.html>

U.S. Army Corps of Engineers Contact: Jody Farhat, Chief, Missouri River Basin Water Management 402-996-3840

###

~~Burke, Linda~~ NWO

From:  NWO  
Sent: Saturday, May 14, 2011 12:21 PM  
To: Farhat, Jody S NWD02;  NWD02;  NWO;   
NWO  
Cc:  NWO  
Subject: FW: Water Surface Profile (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

All,  
I did talk with the State Water Commission about this. There are multiple entities interested in obtaining updated flow and stage data on the Missouri River at Bismarck. I know that at Jamestown, we hired the USGS to complete multiple readings for us. I'm not sure about the logistics on this but concur that this would be a great opportunity to update our data, once we stabilize at the higher flows.

The State Water Commission indicated that they'd be willing to assist however they could. I do not understand the logistics of this or how we make it happen but strongly support the idea. Please let me know if you need additional funding or if you need me to coordinate some issues with the State?

-----Original Message-----

From: Michael Gunsch [<mailto:mgunsch@houstoneng.com>]  
Sent: Saturday, May 14, 2011 11:44 AM

To:  NWD02  
Cc:  NWO; Fleck Terry ([tfleck@attitudedr.com](mailto:tfleck@attitudedr.com)); Gailen Narum; Craig Odenbach; Sando, Todd S. ([tsando@nd.gov](mailto:tsando@nd.gov));  NWO; Wade Bachmeier; Bill Robinson ([brobinson@northlandfinancial.net](mailto:brobinson@northlandfinancial.net)); Bruce W. Engelhardt ([bengelhardt@nd.gov](mailto:bengelhardt@nd.gov)); [kcasteel@nd.gov](mailto:kcasteel@nd.gov)  
Subject: RE: Water Surface Profile

and

Given the high flows on the Missouri of extended duration the Burleigh County Water Resource District would like to have the COE obtain elevation data along the river for these flow conditions. This is an important opportunity to gather information on the system conveyance and various flood stages. As previously noted the rating curves at Bismarck indicate elevations of 6 inches or more higher for these designated flows. How this extends to larger flows is unknown, but is critical in future management of the Missouri River floodplain, and to forecast potential high flow impacts. Therefore, this information needs to be obtained.

I understand the COE has obtained elevation information in the past, but the timing of these flows makes it critical to gather data as the flows occur and change. The question is who is going to gather this information? Understand the NDSWC might be interested in assisting. Let me know what is being planned and when it will be completed.

Thanks,

Michael H. Gunsch, PE

Senior Project Manager/Principal

Description: Description: cid:021080921@26012009-10E2  
3712 Lockport Street  
Bismarck, ND 58503  
Phone (701) 323-0200

<http://www.houstonengineeringinc.com/> <<http://www.houstonengineeringinc.com/>>

Cell (701) 527-2134

Fax (701) 323-0300

e-mail [mgunsch@houstoneng.com](mailto:mgunsch@houstoneng.com) <<mailto:mgunsch@houstonengineeringinc.com>>

P Please consider the environment before printing this e-mail

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Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

---

**From:** [REDACTED] NWO  
**Sent:** Saturday, May 14, 2011 11:09 AM  
**To:** Farhat, Jody S NWD02  
**Subject:** River Travel Time (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Jody,  
Do we have an updated chart for river travel times below Garrison? I have an old one and when discussing it with the NWS, they asked if the chart shows the time for the leading edge of our changes or the time that it would take to peak and stabilize? I did not know, do you?

[REDACTED]  
[REDACTED]  
Garrison Project

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Saturday, May 14, 2011 10:58 AM  
To: Farhat, Jody S NWD02  
Subject: RE: Regulatory Tunnel Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Thanks Jody,  
I see no reason they can't complete the inspection in closer to a 4 hour timeframe.

-----Original Message-----

From: Farhat, Jody S NWD02  
Sent: Saturday, May 14, 2011 10:48 AM  
To: [REDACTED] NWO  
Subject: RE: Regulatory Tunnel Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] - we agreed to help make this happen. They thought all three tunnels could be inspected in no more than 8 hours. It'll create a dip in the river and will probably induce bank erosion complaints, but Bertino and others thought it was very important to verify the status of the repairs. Apparently all the repairs were not done at the same time or by the same contractor (I know I'm telling you things you already know) so they wanted to see if there was a difference in the performance of the tunnels.

BTW, this was a bit of an impromptu meeting with Bertino so we could provide him our latest forecast and his staff (primarily dam safety folks) could tell us of any concerns they had. We will be meeting with them every couple weeks as the situation develops and next time we'll set up a conference call line so that you and other ops managers as well as Engineering folks in Portland can call in.

Jody

-----Original Message-----

From: [REDACTED] NWO  
Sent: Saturday, May 14, 2011 10:11 AM  
To: [REDACTED] NWO; [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02  
Subject: RE: Regulatory Tunnel Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED]  
Please coordinate this inspection with [REDACTED]. We will have to shut down all three tunnels in order to do this safely. They cannot be down very long at all so the inspection will have to move along very quickly. [REDACTED] please coordinate the releases with Water Management Division to ensure that we can make this happen?



-----Original Message-----

From: [REDACTED] NWO  
Sent: Wednesday, May 11, 2011 10:39 AM  
To: [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: RE: Regulatory Tunnel Releases (UNCLASSIFIED)

[REDACTED]

Had a meeting this morning on the use of spillways/flood tunnels with Jody Farhat, Bertino, and a few others and as a group came to the consensus that we need to inspect all three regulatory tunnels roughly a month after we began releases to see how the cavitation repairs are holding up. Lets plan on an inspection sometime near the end of the month if that works for you guys, week of 29 May? From the way it sounds, discharges will be comparable (or possibly in excess) to those in 97 when the damaged occurred. Based on the inspection we may need to restrict flows to certain tunnels, or may want to schedule another inspection at some interval to re-assess their condition.

[REDACTED]: Will need someone assigned from structures to travel up to Garrison with us and evaluate the tunnels and cavitation repairs.

Jody: Figure you will want to make the trip as well

-----Original Message-----

From: [REDACTED] NWO  
Sent: Wednesday, May 11, 2011 8:10 AM  
To: [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: RE: Regulatory Tunnel Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED]

We are releasing out of all three tunnels. We'll be running about 20,000 cfs between the three by this weekend. We will be at these high flows through July. Currently no plans to stop and check them, but we'll get something scheduled in the future.

-----Original Message-----

From: [REDACTED] NWO  
Sent: Monday, May 09, 2011 1:26 PM  
To: [REDACTED] NWO  
Subject: Regulatory Tunnel Releases

[REDACTED]

What are we currently releasing out of the regulatory tunnels. I believe I heard we are releasing out of all three? Is there a plan to stop releases and inspect the tunnels at some point? How long do we intent to release from them?

[REDACTED]

U.S. Army Corps of Engineers  
Geotechnical Engineering & Sciences Branch, Soils Section B  
Phone: (402) 905-XXXX  
Fax: (402) 995-XXXX  
Email: [ross.j.cullin@sace.army.mil](mailto:ross.j.cullin@sace.army.mil)

[REDACTED] NWO

From: [REDACTED] NWO  
Sent: Saturday, May 14, 2011 10:11 AM  
To: [REDACTED] NWO; [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; Farhat, Jody S NWD02  
Subject: RE: Regulatory Tunnel Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED]  
Please coordinate this inspection with [REDACTED]. We will have to shut down all three tunnels in order to do this safely. They cannot be down very long at all so the inspection will have to move along very quickly. [REDACTED], please coordinate the releases with Water Management Division to ensure that we can make this happen?

-----Original Message-----

From: [REDACTED] NWO  
Sent: Wednesday, May 11, 2011 10:39 AM  
To: [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: RE: Regulatory Tunnel Releases (UNCLASSIFIED)

[REDACTED]  
Had a meeting this morning on the use of spillways/flood tunnels with Jody Farhat, Bertino, and a few others and as a group came to the consensus that we need to inspect all three regulatory tunnels roughly a month after we began releases to see how the cavitation repairs are holding up. Lets plan on an inspection sometime near the end of the month if that works for you guys, week of 29 May? From the way it sounds, discharges will be comparable (or possibly in excess) to those in 97 when the damaged occurred. Based on the inspection we may need to restrict flows to certain tunnels, or may want to schedule another inspection at some interval to re-assess their condition.

[REDACTED] Will need someone assigned from structures to travel up to Garrison with us and evaluate the tunnels and cavitation repairs.

Jody: Figure you will want to make the trip as well

-----Original Message-----

From: [REDACTED] NWO  
Sent: Wednesday, May 11, 2011 8:10 AM  
To: [REDACTED] NWO  
Cc: [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO; [REDACTED] NWO  
Subject: RE: Regulatory Tunnel Releases (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED]  
We are releasing out of all three tunnels. We'll be running about 20,000 cfs between the three by this weekend. We will be at these high flows through July. Currently no plans to stop and check them, but we'll get something scheduled in the future.

Todd

-----Original Message-----

From: [REDACTED] NWO  
Sent: Monday, May 09, 2011 1:26 PM  
To: [REDACTED] NWO  
Subject: Regulatory Tunnel Releases

Todd,

What are we currently releasing out of the regulatory tunnels. I believe I heard we are releasing out of all three? Is there a plan to stop releases and inspect the tunnels at some point? How long do we intent to release from them?

[REDACTED]  
U.S. Army Corps of Engineers  
Geotechnical Engineering & Sciences Branch, Soils Section B  
Phone: [REDACTED]  
Fax: ([REDACTED])  
Email: [REDACTED]@usace.army.mil

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

**NWO**

**From:** [REDACTED] NWO  
**Sent:** Saturday, May 14, 2011 9:51 AM  
**To:** Farhat, Jody S NWD02  
**Subject:** FW: Missouri River Website Page (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Jody,  
Reference the message below. I too checked the River Watch Bulletin and could not get the link to the Daily Bulletin to work. Can you provide a new link in today's update?  
[REDACTED]

-----Original Message-----  
From: Senger, Mary H. [mailto:msenger@nd.gov]  
Sent: Saturday, May 14, 2011 9:40 AM  
To: [REDACTED] NWO  
Subject: Re: Missouri River Website Page (UNCLASSIFIED)

It's in there as of last night. I got the first bulletin last night and replied back that the first url listed does not work.

Mary H. Senger, Emergency Manager  
Burleigh County Emergency Management  
2301 University Dr, Bldg 21  
Bismarck, ND 58504  
Phone: 701.222.6727  
Fax: 701.221.6804  
[msenger@nd.gov](mailto:msenger@nd.gov)  
<http://burleighco.com>  
Facebook: <http://www.facebook.com/burleighem>  
Twitter: <http://twitter.com/burleighem>

----- Reply message -----  
From: "[REDACTED] NWO" [mailto:[REDACTED]@usace.army.mil]  
Date: Sat, May 14, 2011 9:18 am  
Subject: Missouri River Website Page (UNCLASSIFIED)  
To: "Senger, Mary H." <[msenger@nd.gov](mailto:msenger@nd.gov)>

Classification: UNCLASSIFIED  
Caveats: FOUO

Mary,  
The website is very informational. We started releasing a daily "River Watch" bulletin yesterday. We are utilizing the ND JIC to release that information. You might want to post that on the website as well?  
[REDACTED]

-----Original Message-----  
From: Senger, Mary H. [mailto:msenger@nd.gov]  
Sent: Thursday, May 12, 2011 6:32 PM

To: Bitner, Brian D.; James Peluso; Heinert, Patrick D.; Michael Gunsch; Terry Fleck; Gailen Narum ; Ziegler, Ray J.; Ness, Rodney J.; Hall, Marcus J.; [Allen.Schlag@noaa.gov](mailto:Allen.Schlag@noaa.gov); [REDACTED]; [REDACTED] NWO; Sando, Todd S.; Lapp, Tammy L.  
Cc: Fong, Cecily S.  
Subject: Missouri River Website Page  
Importance: High

Please review the site and provide comments.

I would like to utilize this site as a central repository for the public to utilize.

Anything else you would like to see?

<http://burleighco.com/departments/missouri/>

Mary H. Senger, Emergency Manager  
Burleigh County Emergency Management  
2301 University Dr, Bldg 21  
Bismarck, ND 58504

Phone: 701.222.6727

Fax: 701.221.6804

[msenger@nd.gov](mailto:msenger@nd.gov) <<mailto:msenger@nd.gov>>

<http://burleighco.com> <<http://burleighco.com/>>

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P Think Green! Please do not print this e-mail unless it is completely necessary.

**NWO**

**From:** [REDACTED] NWO  
**Sent:** Saturday, May 14, 2011 9:10 AM  
**To:** Farhat, Jody S NWD02  
**Subject:** FW: Media Advisory: Plan and prepare for an increase in stage on the Missouri River (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Jody,  
I apologize, I don't believe that I forwarded this yesterday per your request?

-----Original Message-----

From: Fong, Cecily S. [<mailto:cfong@nd.gov>]

Sent: Thursday, May 12, 2011 6:52 PM

To: [REDACTED] NWO

Subject: Media Advisory: Plan and prepare for an increase in stage on the Missouri River

This just went out.

Media Advisory

For Immediate Release

May 12, 2011

Contact: Jody Farhat, Chief of Missouri River Basin Water Management Division, 402-996-3840

Plan and prepare for an increase in stage on the Missouri River

Bismarck, ND - Local, state, and federal officials gathered today to plan and prepare for increased water releases from Garrison Dam. The US Army Corps of Engineers will be increasing the releases to 55,000 cfs, which will result in an estimated two feet rise in the level of the Missouri River. The river will level off at about 14 feet. The increase will occur incrementally over the next week. The flows should reach the forecasted stage by next weekend. Additional adjustments may be needed if circumstances change.

People who think they may be impacted by the increased river stage should contact their county or city emergency managers.

For Morton County, contact Tammy Lapp-Harris at 701-667-3307.

For the City of Bismarck, contact Gary Stockert at 701-222-6727.

For Burleigh County, contact Mary Senger at 701-222-6727.

# # #

Cecily Fong  
Public Information Officer  
ND Department of Emergency Services  
Office: 701.328.8154  
Cell: 701.391.8158  
[cfong@nd.gov](mailto:cfong@nd.gov) <<mailto:cfong@nd.gov>>

Follow us on Facebook - [www.facebook.com/NDDDES](http://www.facebook.com/NDDDES)

Follow us on Twitter - [www.twitter.com/NDDDES](http://www.twitter.com/NDDDES) <<http://www.twitter.com/NDDDES>>

Description: DES-Logo

Classification: UNCLASSIFIED  
Caveats: FOUO

**NWO**

**From:** [REDACTED] NWO  
**Sent:** Saturday, May 14, 2011 8:05 AM  
**To:** Farhat, Jody S NWD02  
**Subject:** RE: Riverwatch Daily: Garrison and Oahe Dams (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Jody,  
That might be a good idea? If I didn't understand it, I doubt that the public will either.  
It's difficult to provide short, simple bullets when the issues are this complex.  
Regardless, I think that providing this information will be very helpful. I appreciate your support!

-----Original Message-----

**From:** Farhat, Jody S NWD02  
**Sent:** Saturday, May 14, 2011 8:02 AM  
**To:** [REDACTED] NWO  
**Subject:** Re: Riverwatch Daily: Garrison and Oahe Dams (UNCLASSIFIED)

[REDACTED] That's the correct actual and schedule. WAPA is using Oahe for control and is having a very hard time meeting the schedule. We're working with them on options. Also have an issue with potential flooding in pierre if releases exceed 60 kcfs so it's not as easy and just increasing the spill since Wapa still needs to have all units available for peaking especially since they have 2 units out for maintenance. Perhaps the best solution is to add an asterisk and a little explanation.  
Jody

----- Original Message -----

**From:** [REDACTED] NWO  
**To:** Farhat, Jody S NWD02  
**Sent:** Sat May 14 05:51:09 2011  
**Subject:** FW: Riverwatch Daily: Garrison and Oahe Dams (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Jody,  
Looks like we need to make a correct on Oahe's releases. The releases were listed at 44,400 cfs but the planned release states that we'll hold 56,000 cfs through the weekend?

-----Original Message-----

**From:** North Dakota Joint Information Center [mailto:ndjic@nd.gov]  
**Sent:** Friday, May 13, 2011 6:19 PM  
**Subject:** Riverwatch Daily: Garrison and Oahe Dams

For Immediate Release: May 13, 2011

Contact: Kevin R. Quinn 402-995-2419

kevin.r.quinn@usace.army.mil



Jody Farhat 402-996-3840

## Riverwatch Daily - Garrison and Oahe Dams

### Update #1

OMAHA, Neb. - Due to high runoff from the far-above-normal plains and mountain snowmelt, the U.S. Army Corps of Engineers is evacuating large volumes of water from Garrison Dam in Riverdale, N.D. and Oahe Dam near Pierre, S.D.

In expectation of continued high runoff, the U.S. Army Corps of Engineers will release a daily bulletin detailing releases and levels for both dams. Below are the May 13, 2011 statistics for the two dams:

### Daily Information Update

#### Garrison Dam and Lake Sakakawea:

- \* Midnight reservoir level - 1848.8 feet mean sea level
  - \* Yesterday's Reservoir Inflow - 100,000 cubic feet per second (cfs)
  - \* Current Reservoir Release - 46,000 cfs
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- 
- \* Saturday May 14: increases to 48,000 at 8 am
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(more)

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Daily bulletin updates are available from the Corps' website:  
<https://www.nwo.usace.army.mil/>

Northwestern Division's water management website for the most up to date information:

<http://www.nwd-mr.usace.army.mil/rcc/index.html>

U.S. Army Corps of Engineers Contact: Jody Farhat, Chief, Missouri River Basin Water Management 402-996-3840

###

Classification: UNCLASSIFIED  
Caveats: FOUO

Classification: UNCLASSIFIED  
Caveats: FOUO

**NWO**

---

**From:** [REDACTED] NWO  
**Sent:** Saturday, May 14, 2011 7:51 AM  
**To:** Farhat, Jody S NWD02  
**Subject:** FW: Riverwatch Daily: Garrison and Oahe Dams (UNCLASSIFIED)

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For Immediate Release: May 13, 2011

Contact: Kevin R. Quinn 402-995-2419

[kevin.r.quinn@usace.army.mil](mailto:kevin.r.quinn@usace.army.mil)

Jody Farhat 402-996-3840

Riverwatch Daily - Garrison and Oahe Dams

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  - \* Exclusive flood control zone- El. 1,850-1,854 msl
  - \* Top of spillway gates - 1,854 feet msl
  - \* 6 a.m. River Stage at Bismarck-12.3 feet (Flood stage at Bismarck-16.0 feet)
  - \* Planned scheduled releases
- 
- \* Saturday May 14: increases to 48,000 at 8 am
  - \* Sunday, May 15: Hold 48,000 cfs
  - \* Monday, May 16: increase to 50,000 cfs at 8 am.

#### Oahe Dam and Lake:

- \* Midnight reservoir level - 1616.8 feet msl
  - \* Yesterday's Reservoir Inflow - 53,000 cfs
  - \* Yesterday's Reservoir Release - 44,400 cfs
  - \* 6 am river stage at Pierre 10.4 feet (Flood stage 15.0)
  - \* Annual Flood control and multiple use zone - El. 1607.5 to 1617.0 feet msl
  - \* Exclusive flood control zone - El. 1617.0 to 1620.0 feet msl
  - \* Top of spillway gates: - 1620.0 feet msl
  - \* Planned scheduled releases:
- 
- \* Hold 56,000 cfs through Monday

Garrison Dam is a 210-foot high rolled earth embankment. Discharges are normally passed through five power tunnels having a combined discharge capacity of 41,000 cfs, and three flood tunnels having a combined discharge capacity of 98,000 cfs. They may also be passed through the spillway when necessary. The spillway is equipped with 28 tainter gates and has a maximum discharge capacity of 660,000 cfs at the top of its flood control zone. NOTE: The Corps has never previously used the spillway for releases. The Corps anticipate that all releases this year will go through the power plant and regulating tunnels.

(more)

Oahe Dam is a 245-foot high rolled earth embankment. Discharges are normally passed through seven power tunnels having a combined discharge capacity of 56,000 cfs, and six flood tunnels having a combined discharge capacity of 111,000 cfs. They may also be passed through the spillway when necessary. The spillway is equipped with eight tainter gates and has a maximum discharge capacity of 80,000 cfs at the top of its flood control zone. NOTE: The Corps has never previously used the spillway for releases. The Corps anticipates that all releases this year will be made through the power plant and outlet tunnels.

Daily bulletin updates are available from the Corps' website:  
<https://www.nwo.usace.army.mil/>

Northwestern Division's water management website for the most up to date information:

<http://www.nwd-mr.usace.army.mil/rcc/index.html>

U.S. Army Corps of Engineers Contact: Jody Farhat, Chief, Missouri River Basin Water Management 402-996-3840

###

Classification: UNCLASSIFIED  
Caveats: FOUO

**NWO**

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**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 4:56 PM  
**To:** Farhat, Jody S NWD02  
**Subject:** RE: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Thanks that should work fine.

-----Original Message-----

**From:** Farhat, Jody S NWD02  
**Sent:** Friday, May 13, 2011 4:46 PM  
**To:** [REDACTED] NWO  
**Subject:** RE: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

It expands as needed, we've had as many as 20 or 30.

-----Original Message-----

**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 4:45 PM  
**To:** Farhat, Jody S NWD02  
**Subject:** RE: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

Jody,  
Do you know how many folks can call in to the number you provided?  
[REDACTED]

-----Original Message-----

**From:** Farhat, Jody S NWD02  
**Sent:** Friday, May 13, 2011 2:05 PM  
**To:** [REDACTED] NWO  
**Subject:** RE: Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: FOUO

[REDACTED] - this looks great. Sorry for responding so late.

-----Original Message-----

**From:** [REDACTED] NWO  
**Sent:** Friday, May 13, 2011 11:22 AM  
**To:** Farhat, Jody S NWD02; [REDACTED] NWO; [REDACTED] Farmer, Monique L NWO  
**Cc:** [REDACTED] NWO, [REDACTED] NWO  
**Subject:** Missouri River Conference Call (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: FOUO

I've attached my "draft" message that I intend to send to the following invitees for our conference calls.

- Burleigh County EM (Mary Senger)
- Morton County EM (Tammy Lapp-Harris)
- Oliver County EM (Sandy Olin)
- McLean County EM (Richard Johnson)
- Sioux County EM (Frank Landels)
- City of Bismarck EM (Gary Stockert)
- National Weather Service (Allen Schlag)
- ND DES (Amy Anton, Kathleen Donahue, Cecily Fong)
- ND SWC (Bruce Engelhardt, Kelly Casteel)

Please review and provide any suggestions, or comments, regarding the invitees or my message below. I plan to get this out this afternoon so would appreciate any feedback by 1:00 today. Thanks!

Todd

"DRAFT MESSAGE":

All,  
In an attempt to keep agencies along the Missouri River informed about releases from Garrison Dam and potential river stages, we are scheduling routine conference calls. Beginning next week, Monday May 16th, we will conduct a conference call, via a call in number. You are invited to participate in these calls. Currently we are scheduling the calls for Monday, Wednesday and Friday of next week. The calls will be conducted at 11:30 a.m.

During these calls, the Corps of Engineers will provide information on current; reservoir inflows, elevations, and releases. The National Weather Service will also be participating and will provide river stage information, as well as forecast updates, as needed. Following discussion of our release plans, we'd like to hear feedback from the Counties regarding impacts and issues that you're seeing as we increase releases.

As we host the calls next week, we'll discuss the need for continued communication and decide if additional periodic calls are warranted through this time of high releases. Here is the call in information:

USA Toll-Free: [REDACTED]

ACCESS CODE: [REDACTED]

Security Code (if requested): [REDACTED]

If you have any additional questions pertaining to the calls, or our operations, feel free to contact Jody Farhat (Chief of Missouri River Water Management Division) or I. Jody can be reached at 402-996-3840. I can be reached at (701) 654-7411 ext. 207.

[REDACTED]  
Garrison Project